

Citrix Connex Cardio XenApp Setup Procedure

This procedure is used for setting up Connex Cardio as a Citrix XenApp App

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1.0 Requirements:

	Requirements*
Client Machines that will run Citrix XenApp	Microsoft® Windows® 7 Professional (64-bit and 32-bit) Microsoft® Windows® 10 Professional (64-bit)
	Citrix Receiver
	Internet Browser – any that is supported by Citrix
Desktop Delivery Controller	Citrix XenApp version 7.13
	Any operating system supported by Citrix
Citrix App Servers	Microsoft® Windows® Server 2008 R2 (64-bit) Microsoft® Windows® Server 2012 R2 (64-bit)
	Citrix Virtual Delivery Agent 7.13
	Connex Cardio Client software
Required for ECG acquisition	Installation of Connex Link – found on installation media
Internet Browser	any browser supported by Citrix: <ul style="list-style-type: none"> Internet Explorer 11 or 10 (HTTP connections only) Safari 7 Google Chrome 43 or 42 — Requires enabling Netscape Plug-in API (NPAPI). See http://support.citrix.com/article/CTX200889 . <ul style="list-style-type: none"> Mozilla Firefox 38 or 37

2.0 Citrix XenApp Host Server Software Installation

2.1 Install and configure the appropriate OS environment

(desktop or server OS) for each Citrix XenApp Server VM

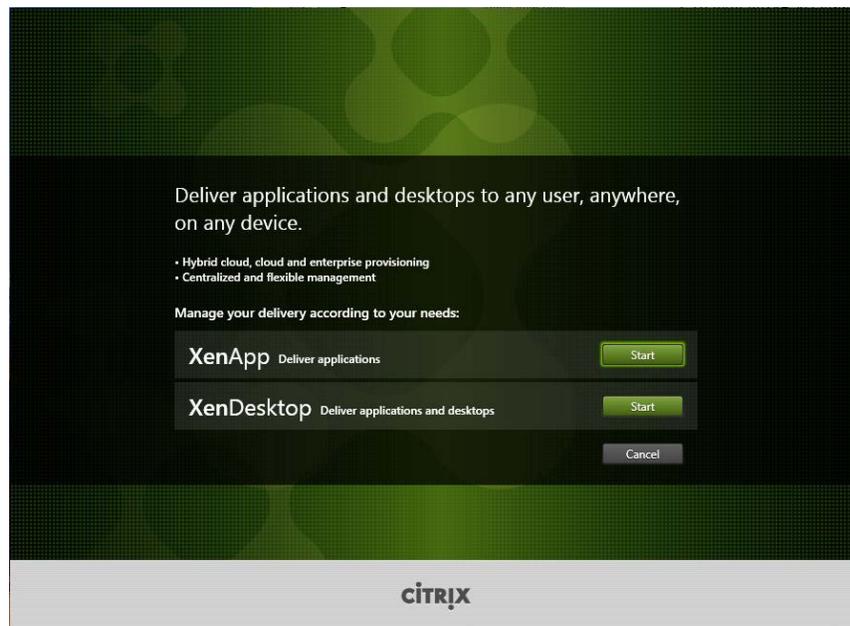
NOTE: If the Host server(s) are joined to a domain, this same domain **MUST** be used for authentication in the StoreFront. See section **2.88** below (Create A StoreFront).

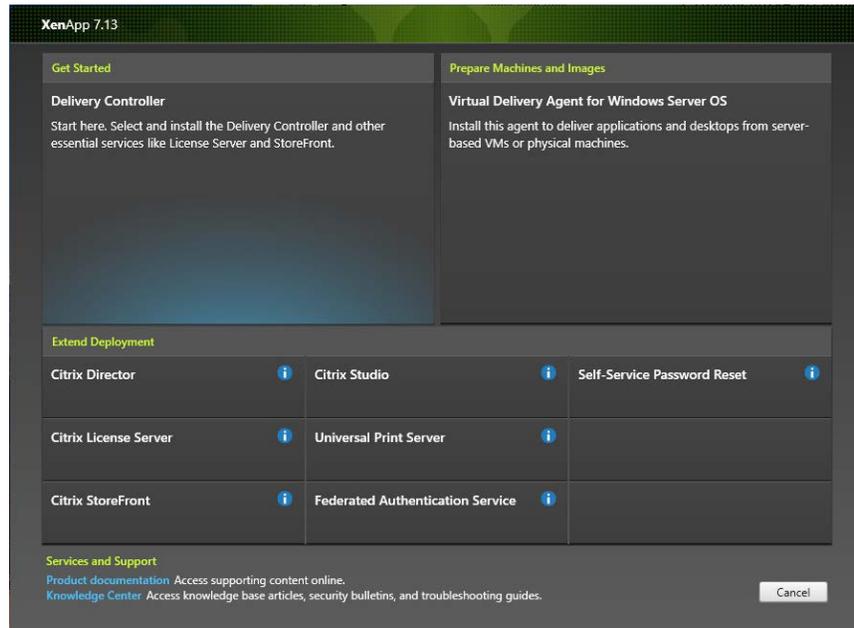
2.2 Install XenApp Enterprise Edition 7.13

See <https://www.linkedin.com/pulse/how-install-configure-citrix-xenapp-76-publish-desktops-raza>

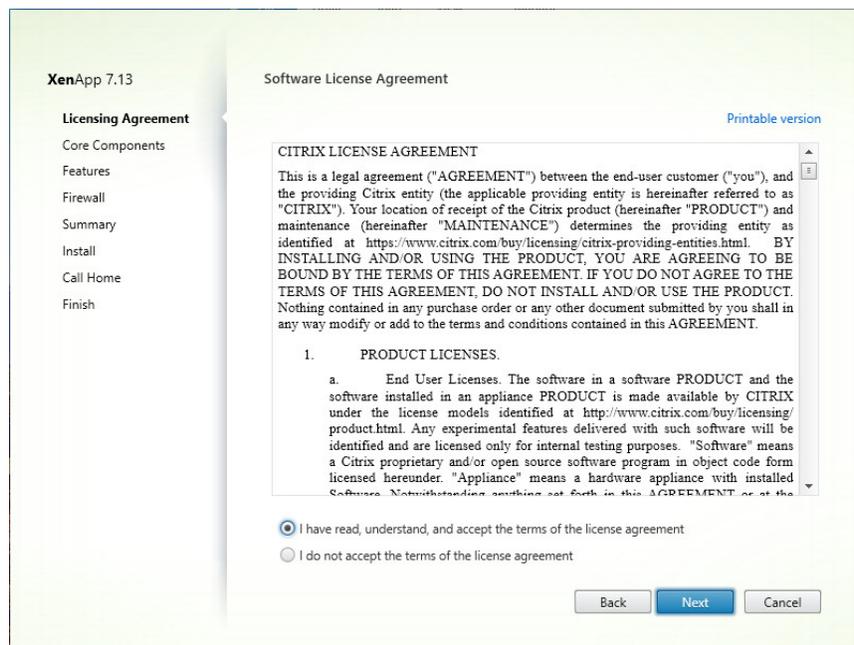
2.2.1 Logon to the server as a DOMAIN USER with Administrative rights and launch the Citrix Installer using Run As Administrator. The domain user is necessary for the final steps of configuration after the reboot.

2.2.2 Click Start for XenApp and Click on Delivery Controller.

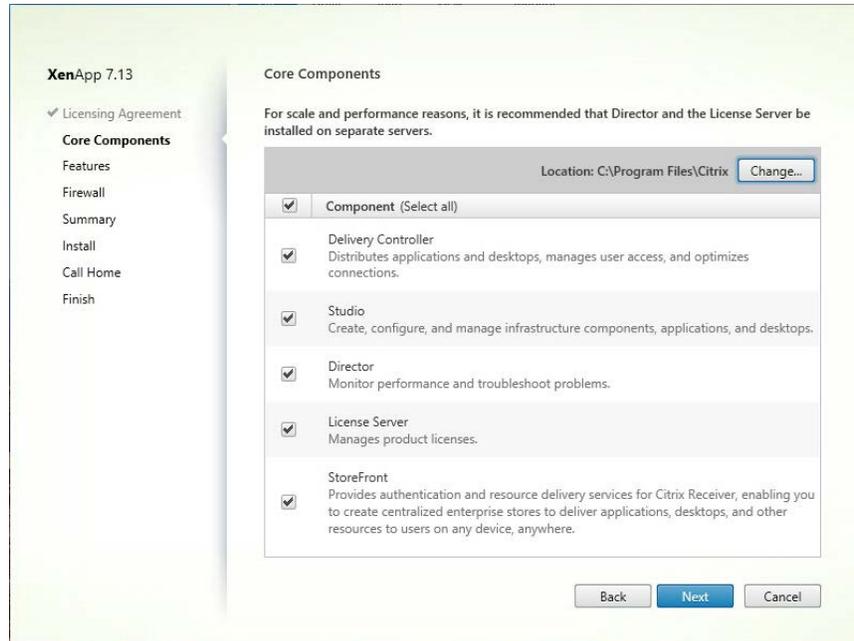




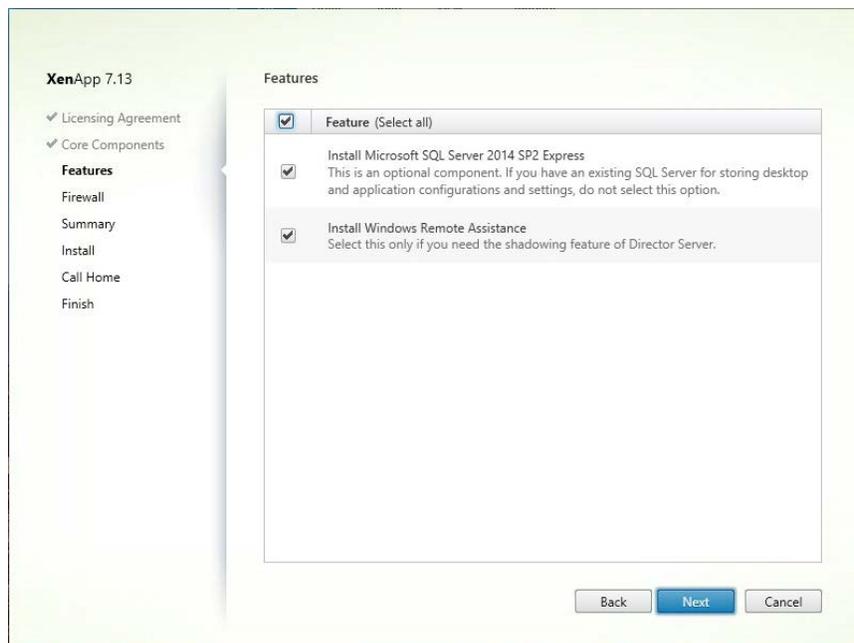
2.2.3 Click on "I have read, understand, and accept the terms of the license agreement" and click Next.



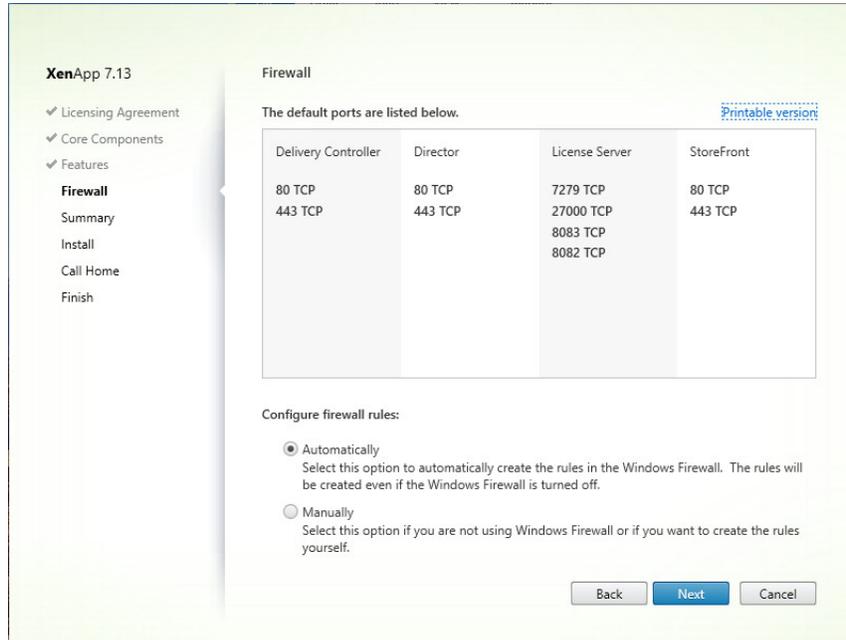
2.2.4 Select all the Components and click Next. You will be using a local license server installed on your server.



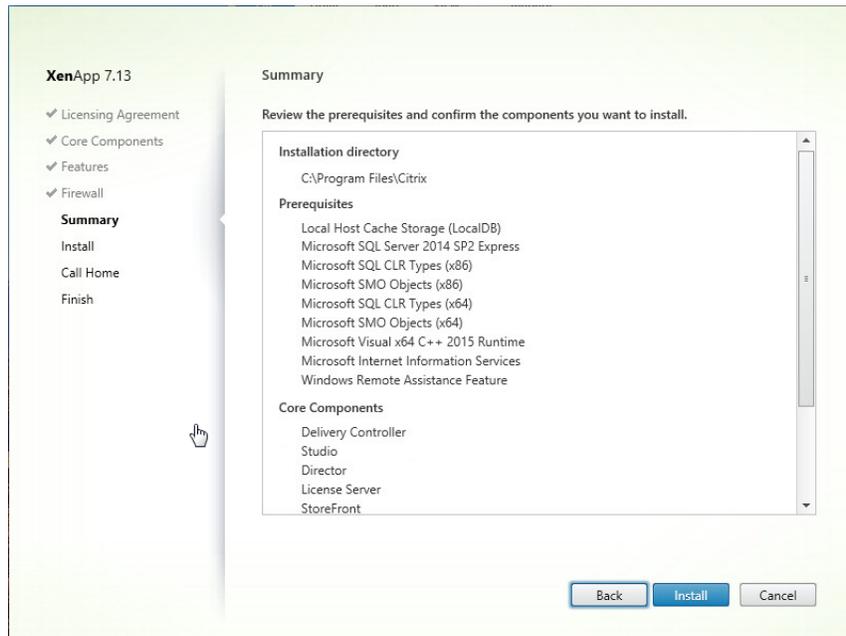
2.2.5 Select all the features and click Next.



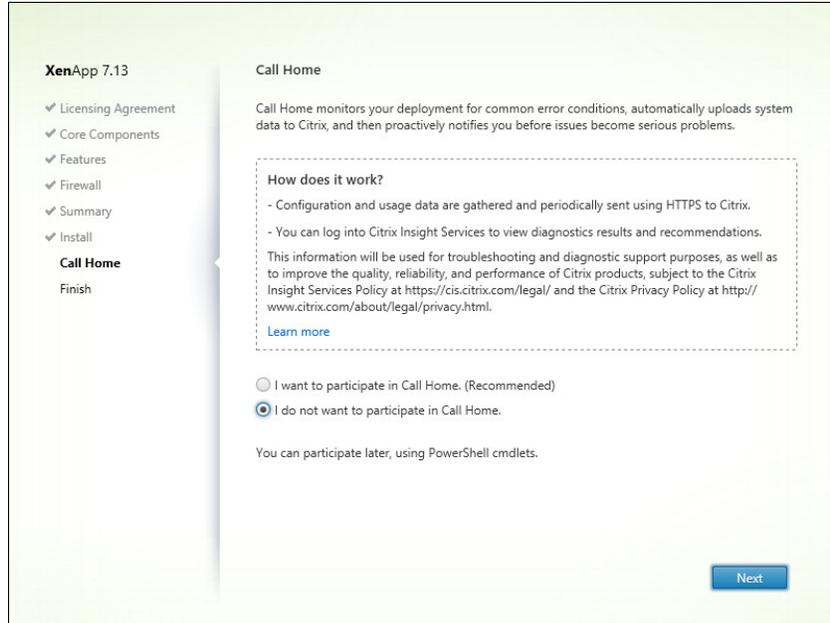
2.2.6 Click Next.



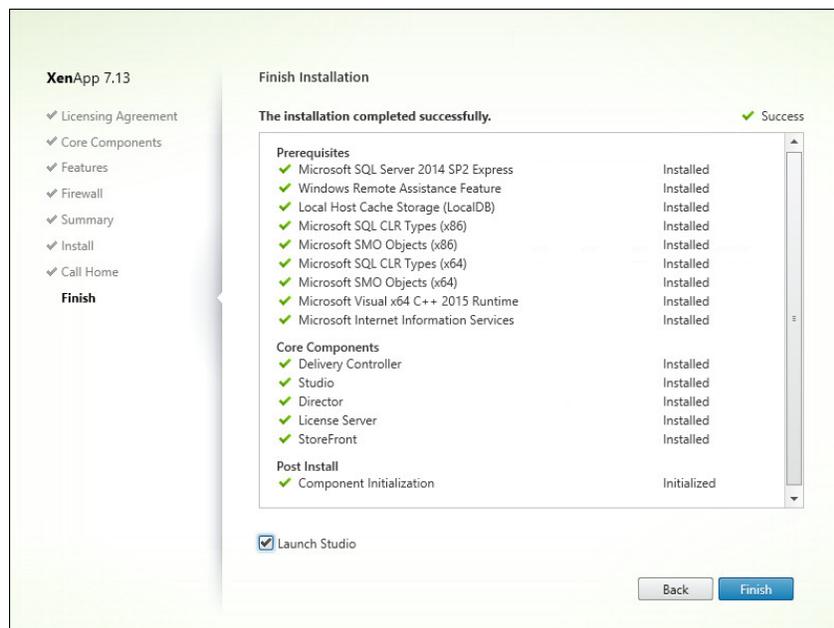
2.2.7 Click Install.



2.2.8 The system will reboot half way through and continue the install. When it's done you are prompted for participation in the optional Call Home program. Click on Next.



2.2.9 Click Finish. Note that if you are logged in as a domain user you will get an additional checkbox at the bottom to Launch Studio. Check the checkbox and click Finish. Otherwise you must log out and log back in as a domain user to finish the configuration.



2.3 Install XenApp License

2.3.1 Now open your Mycitrix account and Allocate your license. Enter host name and click continue.

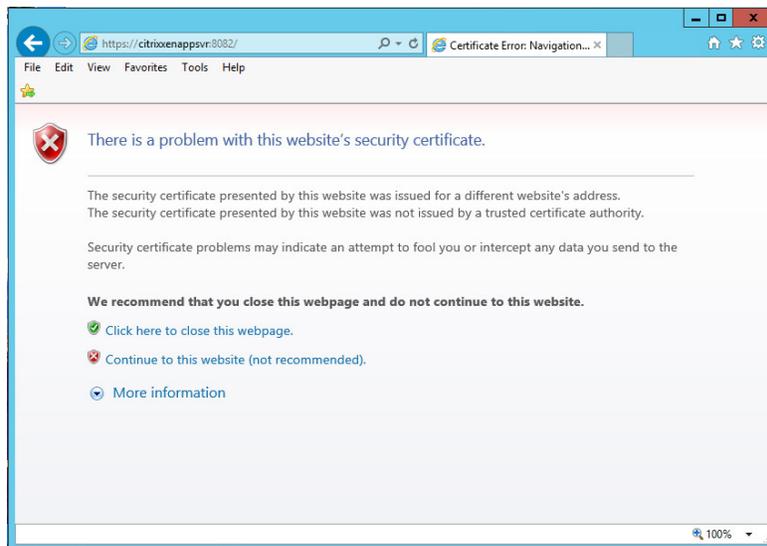
Name	Code	Order Number	Host ID Type	Host ID	Quantity/Available
Citrix Store XenApp - Evaluati...	XXXXXXXXXX	N/A /00001	Host Name ▾	xenapp ▾	99 / 99

2.3.2 Click Confirm

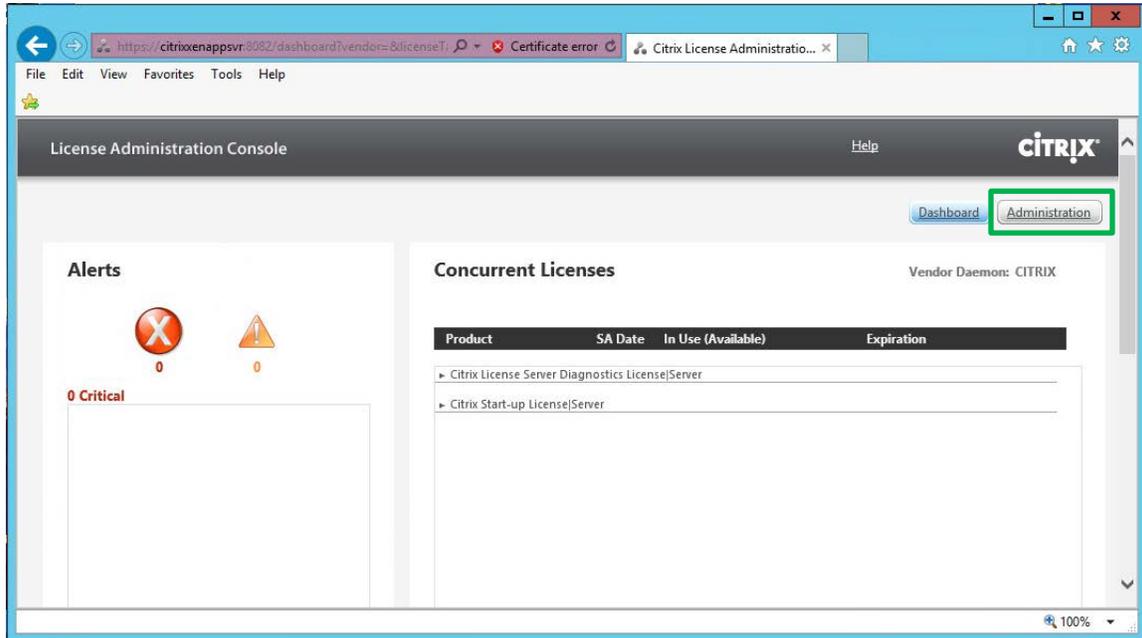
Name	Code	Order Number	Host ID Type	Host ID	Quantity
Citrix Store XenApp - Evaluation (90 day)	XXXXXXXXXX	N/A /00001	Host Name	xenapp	99

2.3.3 Click OK to download and save your license file.

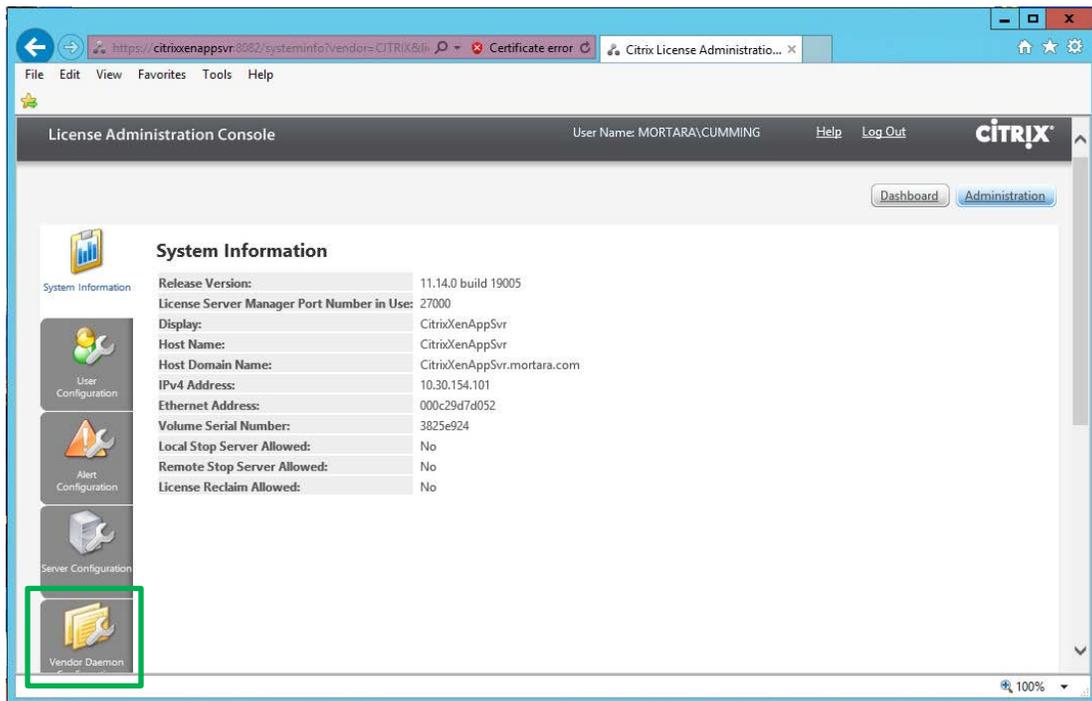
2.3.4 Back on the server being installed, click on Start > Citrix > License Administration Console which will open in a web browser pointing to <https://localhost:8082/> with an error message complaining about the site's security certificate. Click on Continue To This Web Site.



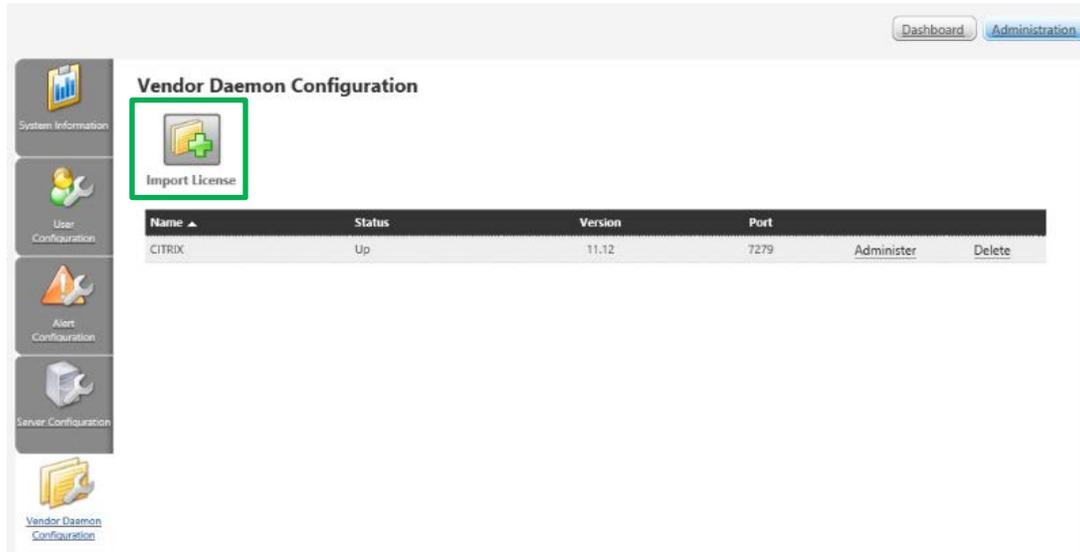
2.3.5 Click on administration and login with Administrative credentials.



2.3.6 Click on Vendor Daemon Configuration



2.3.7 Click on Import License.



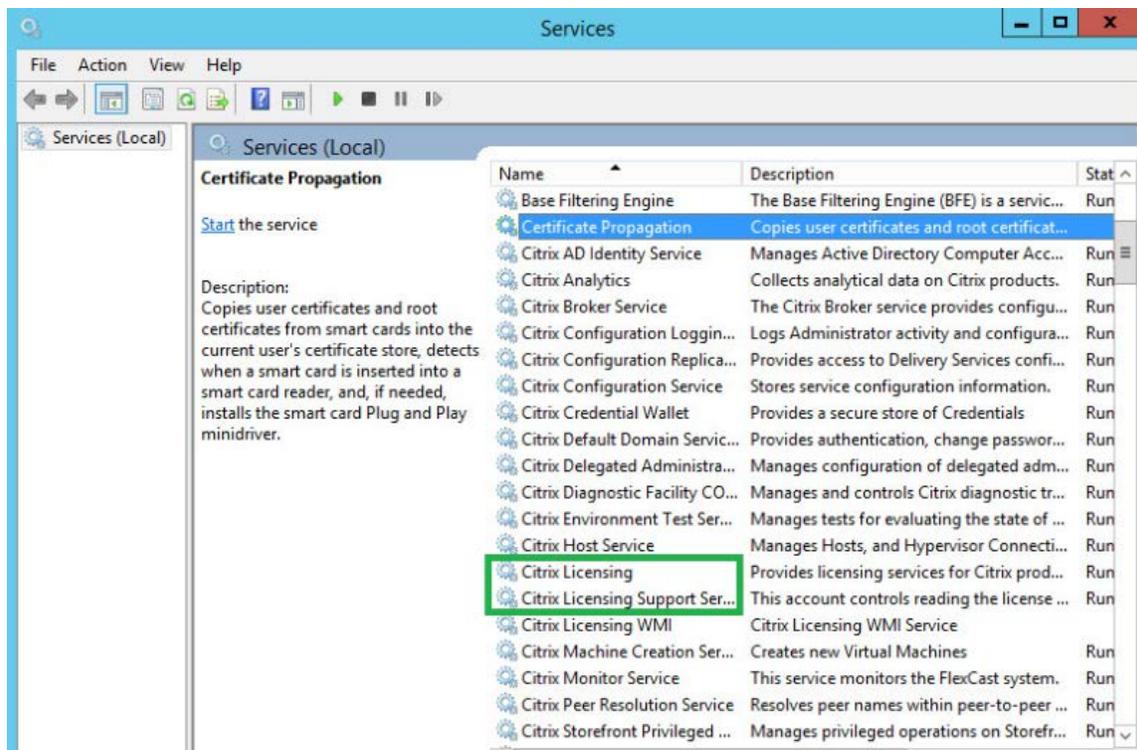
2.3.8 Browse to the license file and click open, then click on Import License. After a successful import click on OK, then click on Citrix.



2.3.9 Click on Reread license file. Close the web page when done.



2.3.10 Now you have to restart the Vendor Daemon. Open services.msc and restart following services. Close the Services applet when done.

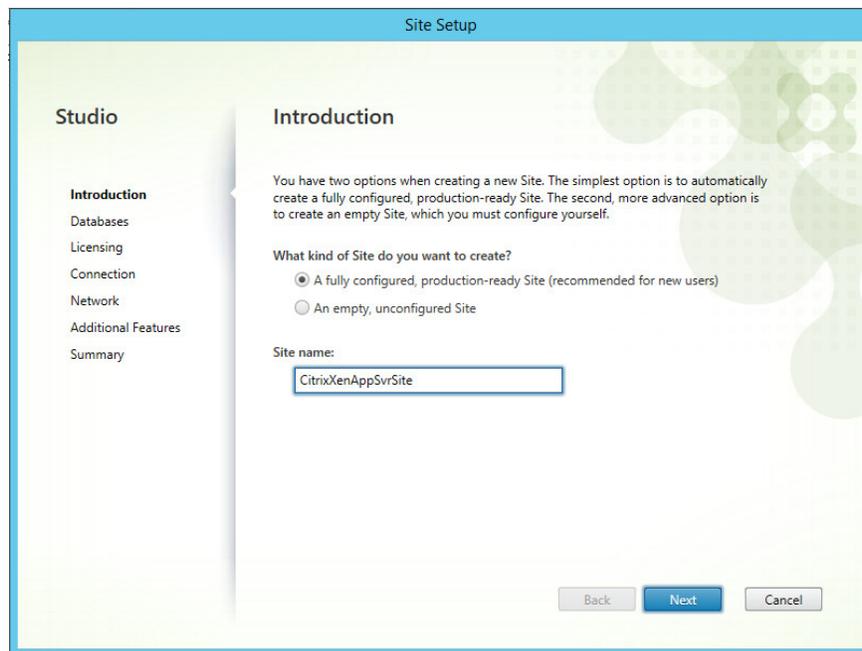


2.4 Create XenApp Site

2.4.1 Open Citrix Studio, Click on "Deliver applications and desktops to your users"



2.4.2 Select "A fully configured, Production-ready Site (recommended for new users)" and Enter Site name



2.4.3 At the Database accept the default values and click Next.

The screenshot shows the 'Site Setup' wizard at the 'Databases' step. On the left, a 'Studio' sidebar lists navigation options: Introduction, Databases (selected), Licensing, Connection, Network, Additional Features, and Summary. The main content area is titled 'Databases' and contains the following elements:

- A heading: 'Databases'.
- Text: 'Databases store information about Site setup, configuration logging and monitoring. Choose how you want to set up the databases. [Learn more](#)'.
- Two radio buttons for setup method:
 - Create and set up databases from Studio (You can provide details of existing empty databases)
 - Generate scripts to manually set up databases on the database server
- A section titled 'Provide database details' with a table of input fields:

Data type	Database name	Location (formats)
Site:	CitrixCitrixXenAppSvrSiteSite	localhost:sqlexpress
Monitoring:	CitrixCitrixXenAppSvrSiteMonitorin	localhost:sqlexpress
Logging:	CitrixCitrixXenAppSvrSiteLogging	localhost:sqlexpress
- Information icon and text: 'Default database names and SQL Server Express location are provided'.
- Text: 'Specify additional Delivery Controllers for this Site [Learn more](#)' and a 'Select...' button.
- Text: '1 selected'.
- Navigation buttons: 'Back', 'Next', and 'Cancel'.

2.4.4 At the Licensing page accept the default of Use the free 30-day trial and click on Next.

The screenshot shows the 'Site Setup' wizard at the 'Licensing' step. On the left, the 'Studio' sidebar lists navigation options: Introduction, Databases, Licensing (selected), Connection, Network, Additional Features, and Summary. The main content area is titled 'Licensing' and contains the following elements:

- A heading: 'Licensing'.
- Text: 'License server address: localhost:27000' with a lock icon and a 'Connect' button.
- Text: 'Connected to trusted server [View certificate](#)'.
- A section titled 'I want to:' with two radio buttons:
 - Use the free 30-day trial (You can add a license later.)
 - Use an existing license (The product list below is generated by the license server.)
- A text box with the message: 'There are no suitable licenses on your license server. You can allocate licenses using your License Access Code or you can add licenses from your network. [Learn more](#)'.
- Buttons: 'Allocate and download...' and 'Browse for license file...'.
- Navigation buttons: 'Back', 'Next', and 'Cancel'.

- 2.4.5 At the Connection page select No machine management (which is not the default) and click Next

The screenshot shows the 'Site Setup' window with the 'Connection' tab selected in the left-hand 'Studio' sidebar. The main content area is titled 'Connection' and contains the following text: 'Select a Connection type. If machine management is not used (for example when using physical hardware), select 'No machine management.''. Below this text is a dropdown menu labeled 'Connection type:' with 'No machine management' selected. At the bottom right of the window are three buttons: 'Back', 'Next', and 'Cancel'.

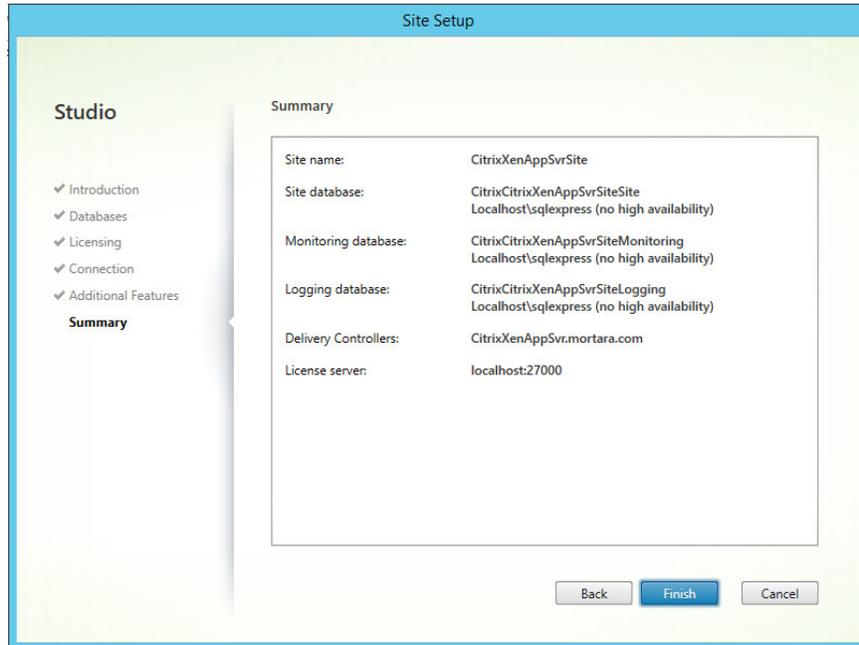
- 2.4.6 At the Additional Features page accept the default of no checkboxes checked and click Next

The screenshot shows the 'Site Setup' window with the 'Additional Features' tab selected in the left-hand 'Studio' sidebar. The main content area is titled 'Additional Features' and contains the following text: 'Use the following features to customize your Site. You can also enable/disable and configure features later.''. Below this text is a table with two rows of features, each with an unchecked checkbox:

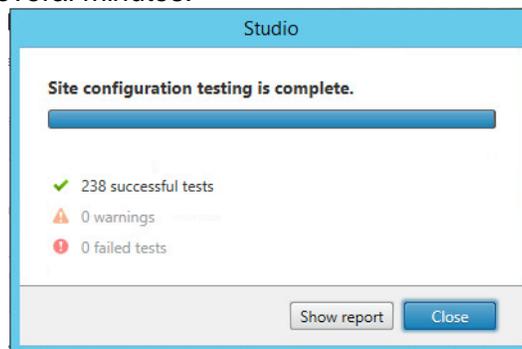
Feature
<input type="checkbox"/> AppDNA Enable this feature to allow analysis of applications and operating systems, review compatibility issues, and take remedial actions to resolve them.
<input type="checkbox"/> App-V Publishing Enable this feature if you will use applications from packages on App-V servers. If you will use only applications from App-V packages on network share locations, you do not need to enable this feature.

At the bottom right of the window are three buttons: 'Back', 'Next', and 'Cancel'.

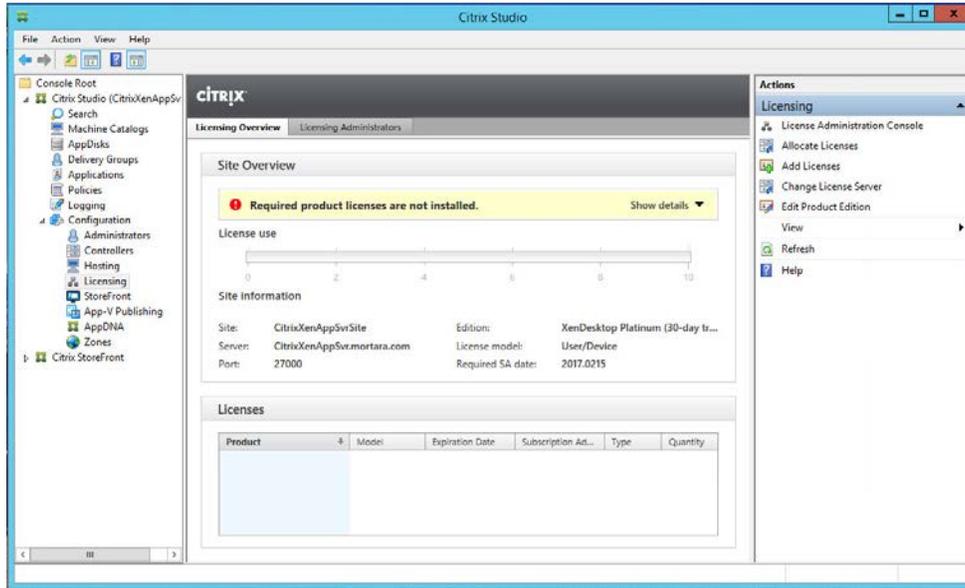
2.4.7 Click Finish on Summary page



2.4.8 Site configuration is now complete. Optionally you may click Test Site configuration which takes several minutes.



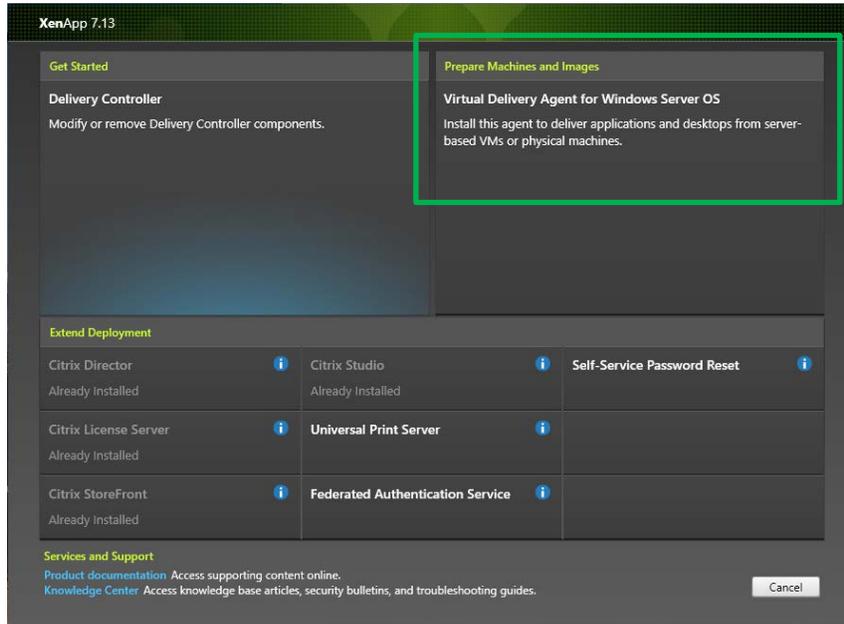
- 2.4.9 Click on Licensing in the left pane, and then click on Add License. Browse to the license file you downloaded from MyCitrix.



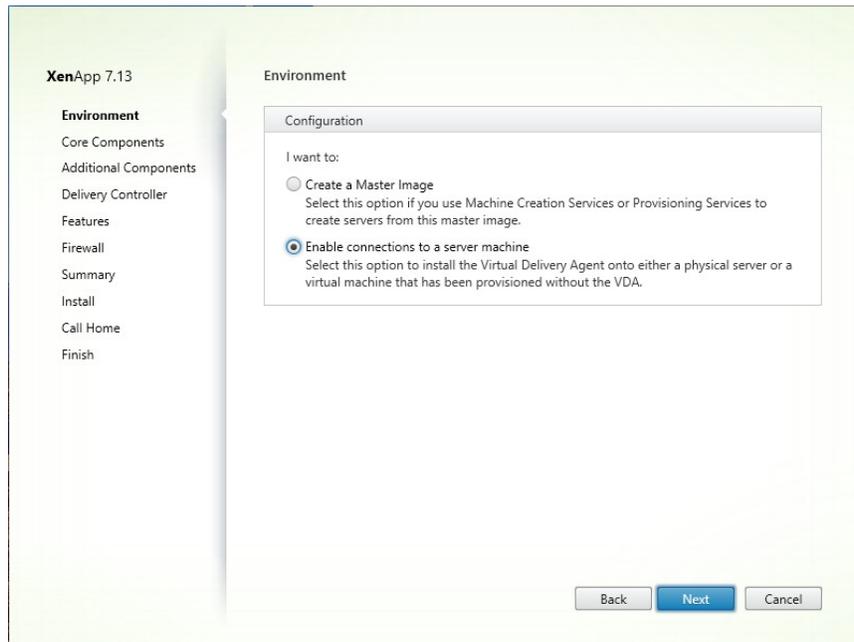
2.5 Install Virtual Delivery Agent (VDA)

Note this can be installed on additional App Servers, but here we install it locally on the same server where we installed XenApp.

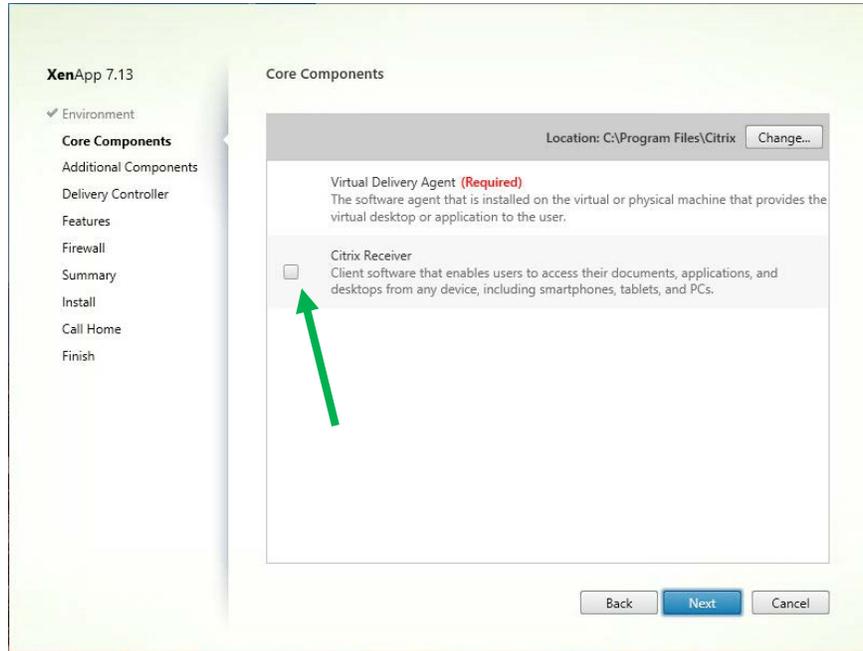
2.5.1 Run the Citrix Setup and click on Virtual Delivery Agent for Windows Server OS



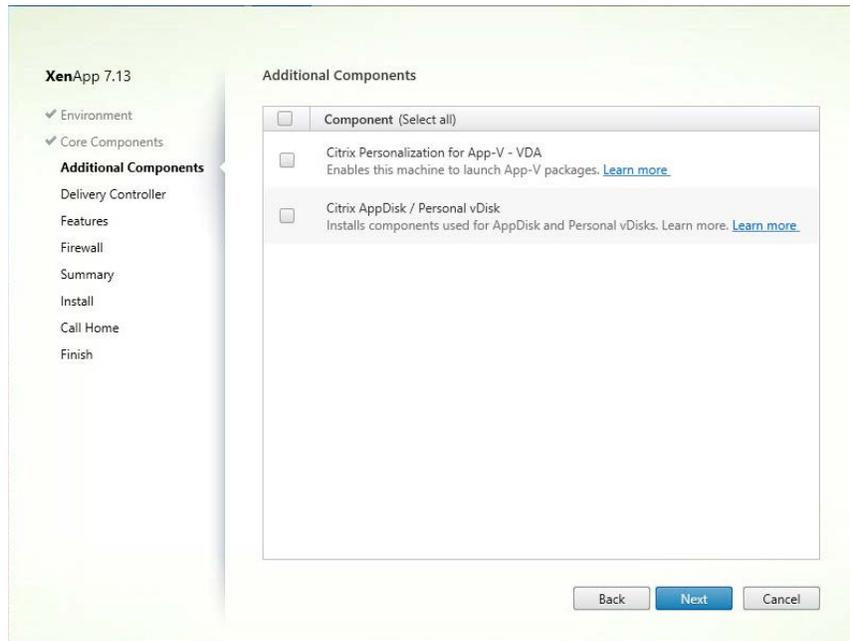
2.5.2 Click "Enable connection to server machine" (which is not the default). Click Next



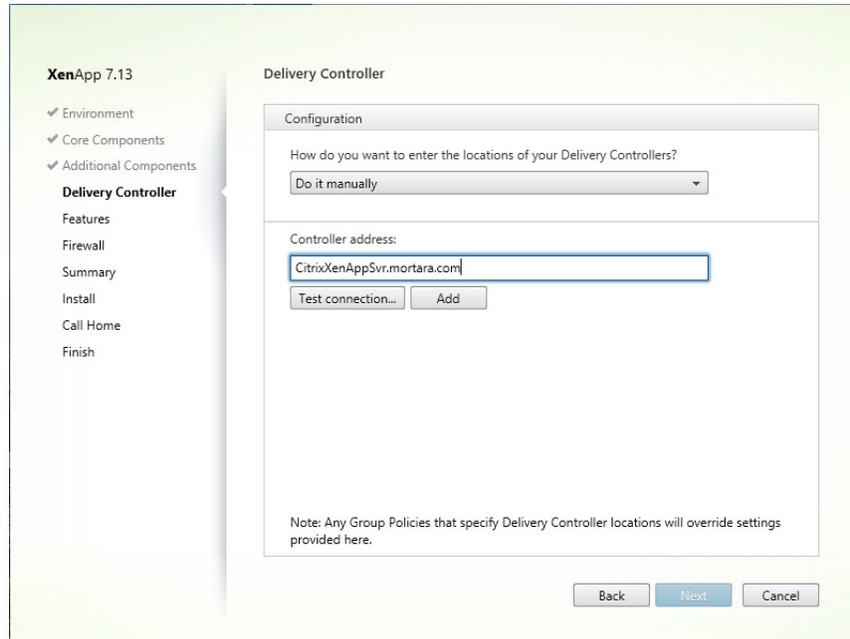
2.5.3 UNCHECK Citrix Receiver (not needed by our server) and click Next.



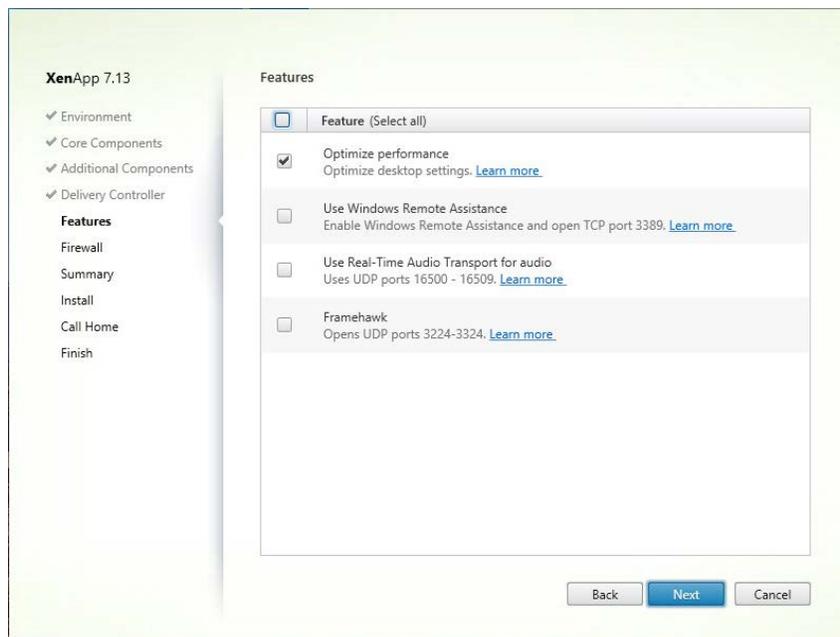
2.5.4 At Additional Components accept the default (nothing selected) and click Next.



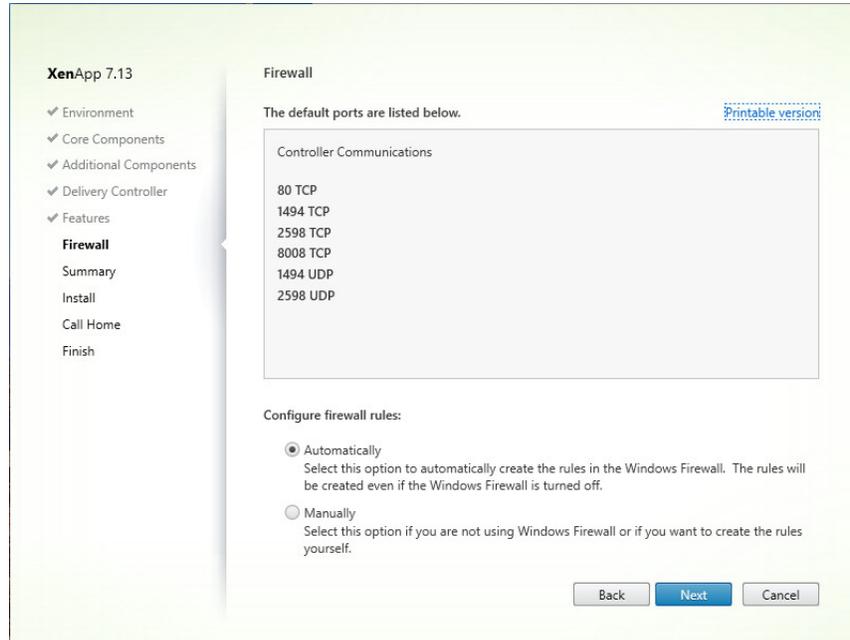
2.5.5 Enter the FQDN of XenApp server and click Test Connection, then click Add and click Next.



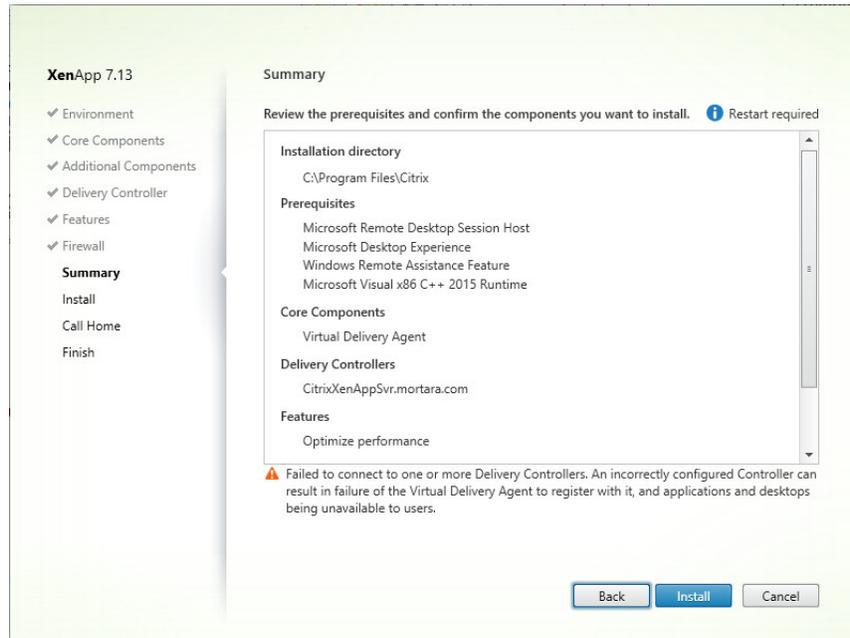
2.5.6 Optimize Performance is optional.



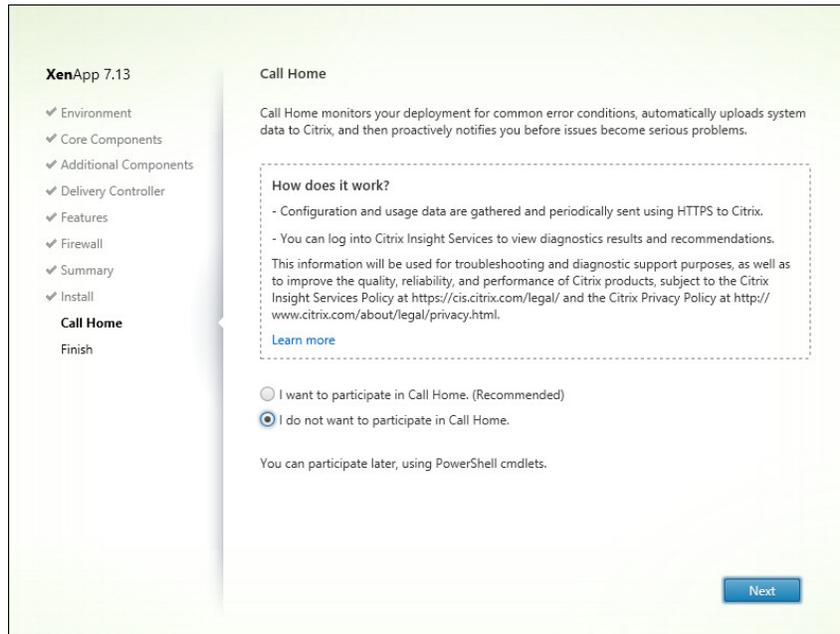
2.5.7 At the Firewall page click Next to automatically configure the Firewall.



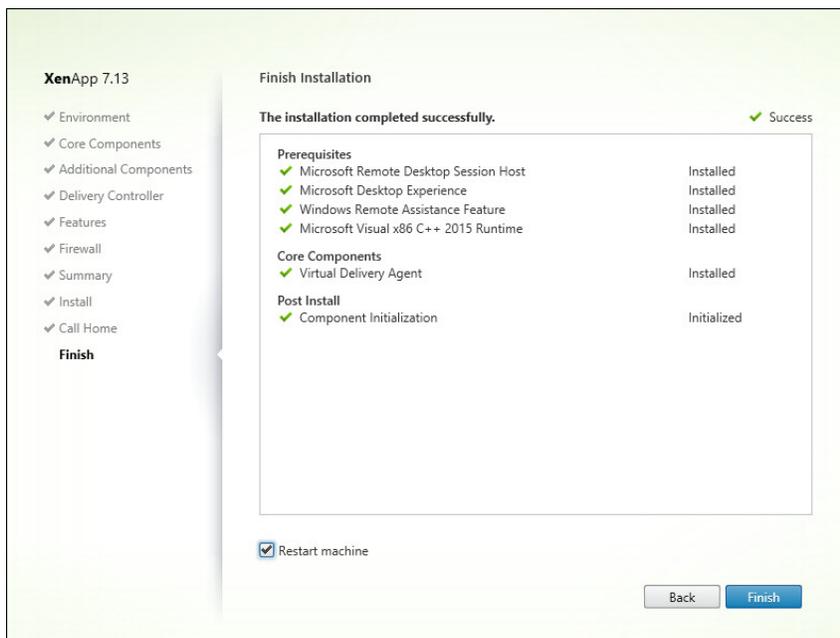
2.5.8 Click Install



2.5.9 Midway through the process the installer will reboot the server. After the reboot the setup continues. At the Call Home screen click on Next.

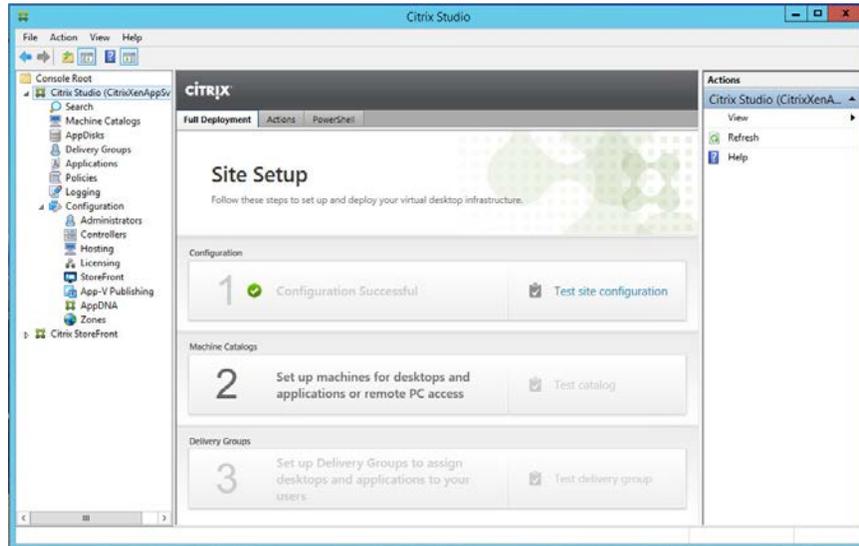


2.5.10 At the Finish Installation screen click Finish to restart the machine one more time.

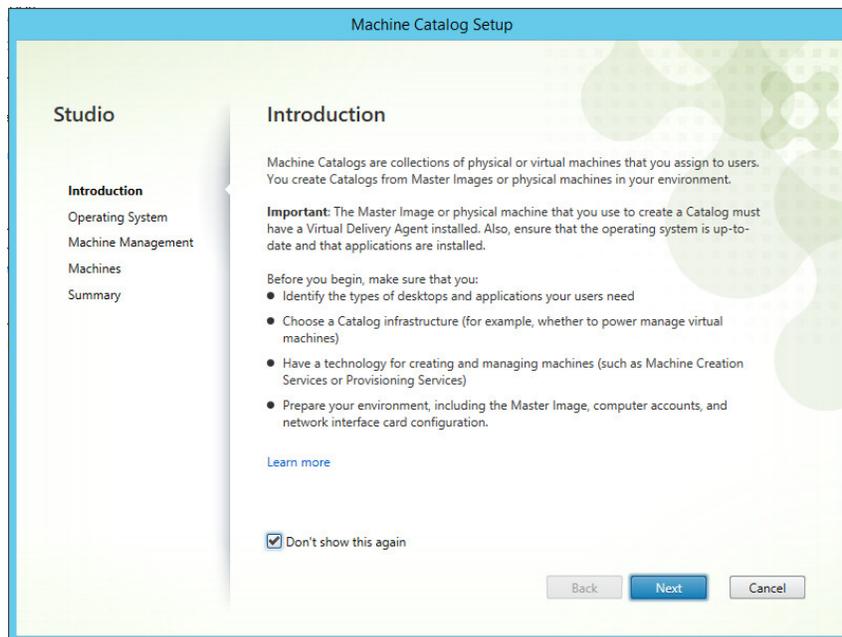


2.6 Create Machine Catalog

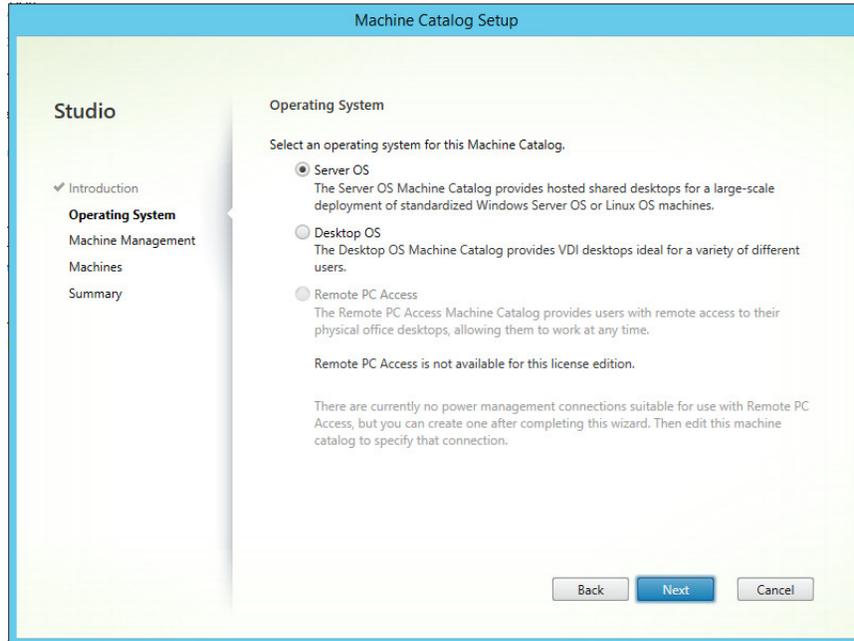
2.6.1 Open Citrix Studio and select the Citrix Studio root node. Click on Set up machines for desktops and applications.



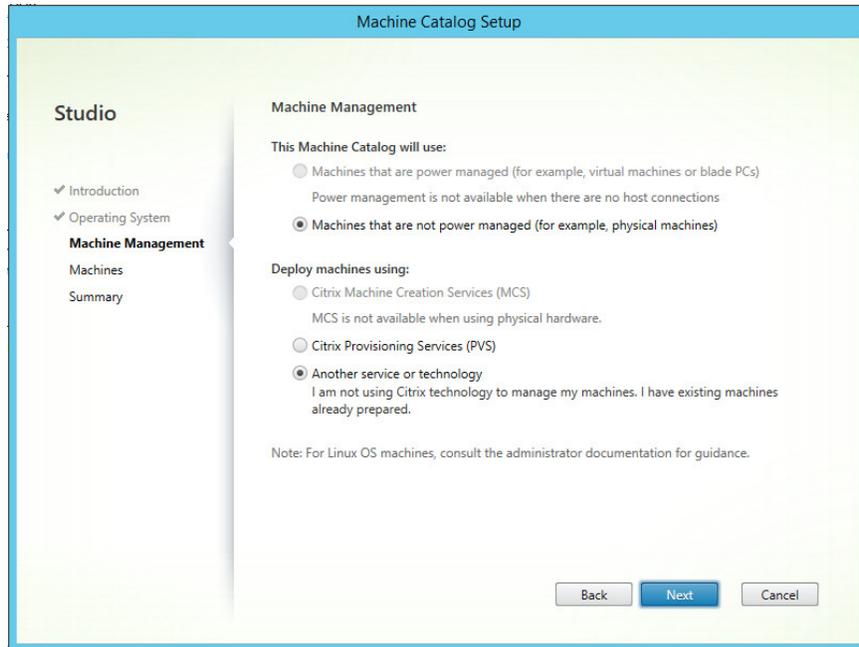
2.6.2 At the Introduction page check the Don't Show This Again checkbox and click Next.



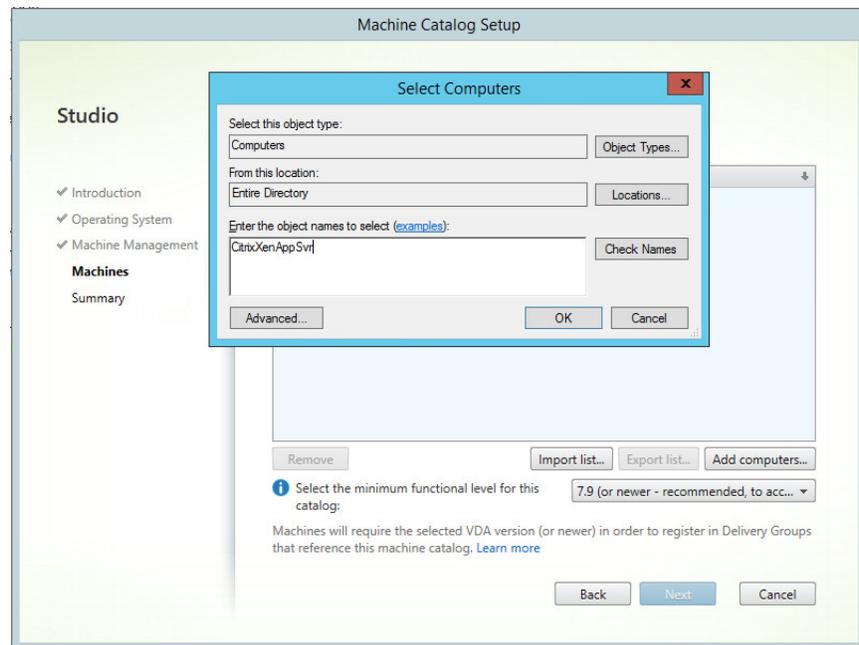
2.6.3 Accept the default of Server OS (since this server is running a server OS) and click Next.



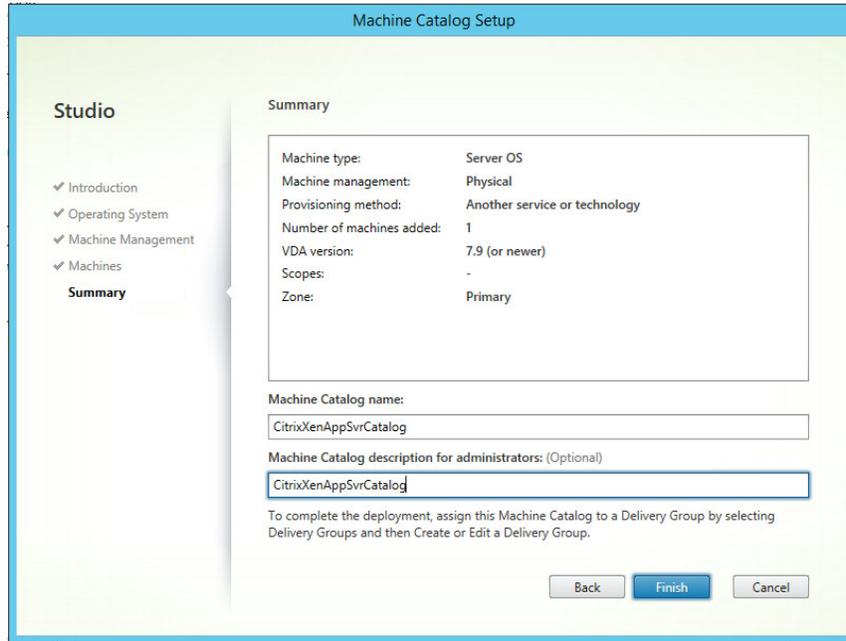
2.6.4 Accept the defaults of Machines are not power managed and Deploy Using Another Service or Technology and click Next



2.6.5 Click on Add Computers, and then specify the name of this server. Click OK and then click Next.



2.6.6 Enter a Machine Catalog name and click Finish.



The screenshot shows the 'Machine Catalog Setup' wizard in the 'Studio' environment. The 'Summary' step is active, displaying the following configuration details:

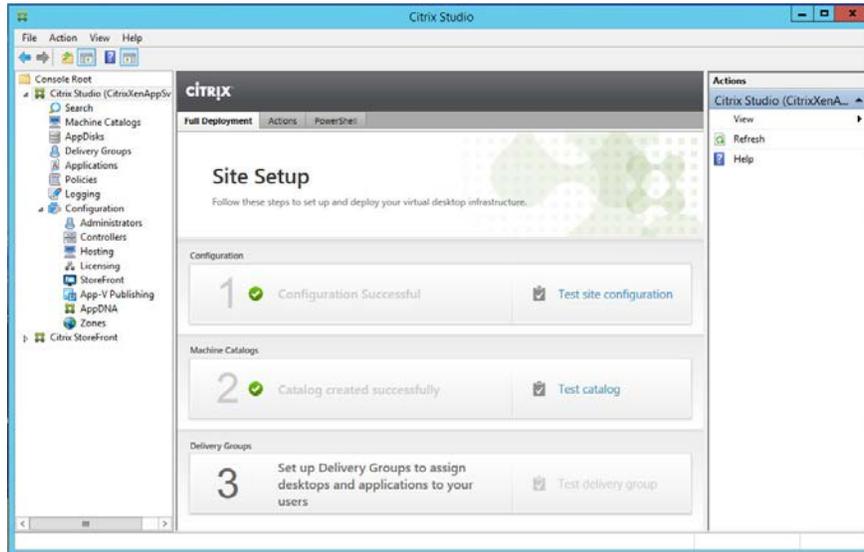
Machine type:	Server OS
Machine management:	Physical
Provisioning method:	Another service or technology
Number of machines added:	1
VDA version:	7.9 (or newer)
Scopes:	-
Zone:	Primary

Below the summary, the 'Machine Catalog name' field contains 'CitrixXenAppSvrCatalog'. The 'Machine Catalog description for administrators: (Optional)' field also contains 'CitrixXenAppSvrCatalog'. At the bottom, there are 'Back', 'Finish', and 'Cancel' buttons. A note at the bottom states: 'To complete the deployment, assign this Machine Catalog to a Delivery Group by selecting Delivery Groups and then Create or Edit a Delivery Group.'

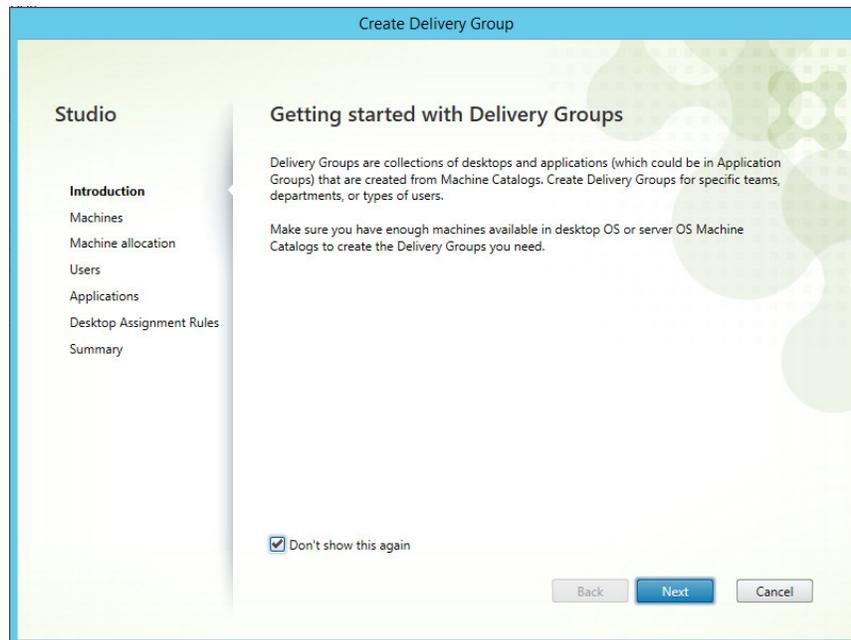
2.6.7 The catalog should now display as being created successfully.

2.7 Create Delivery Group

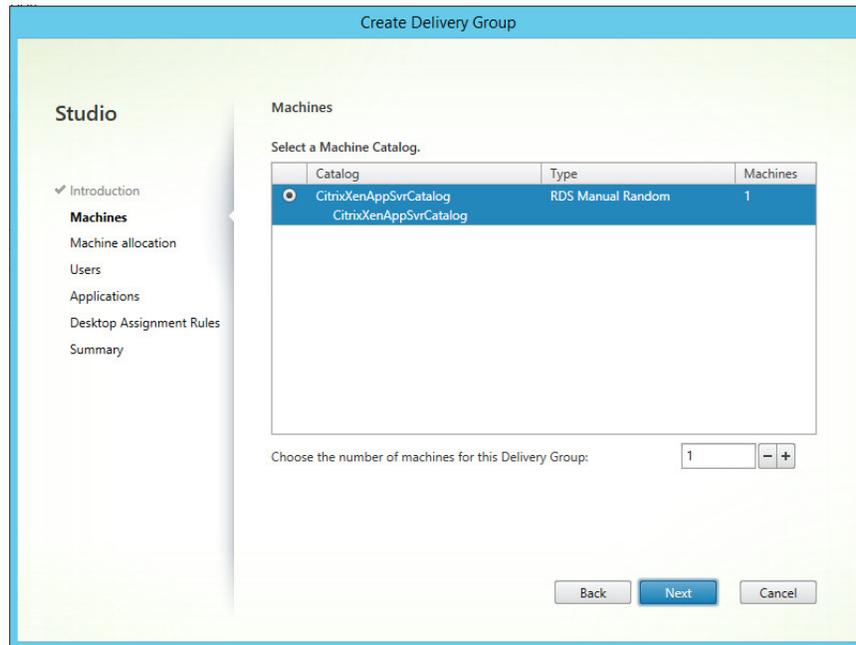
2.7.1 Starting from the previous step (in Citrix Studio, selecting the Citrix Studio root node), click on Set up Delivery Groups



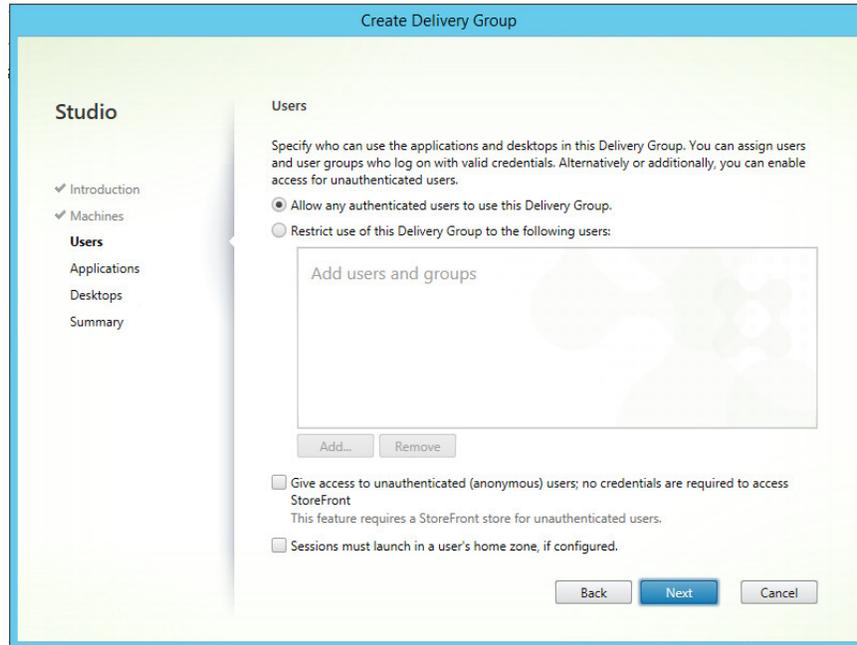
2.7.2 At the Getting Started page check the Don't Show This Again checkbox and click Next.



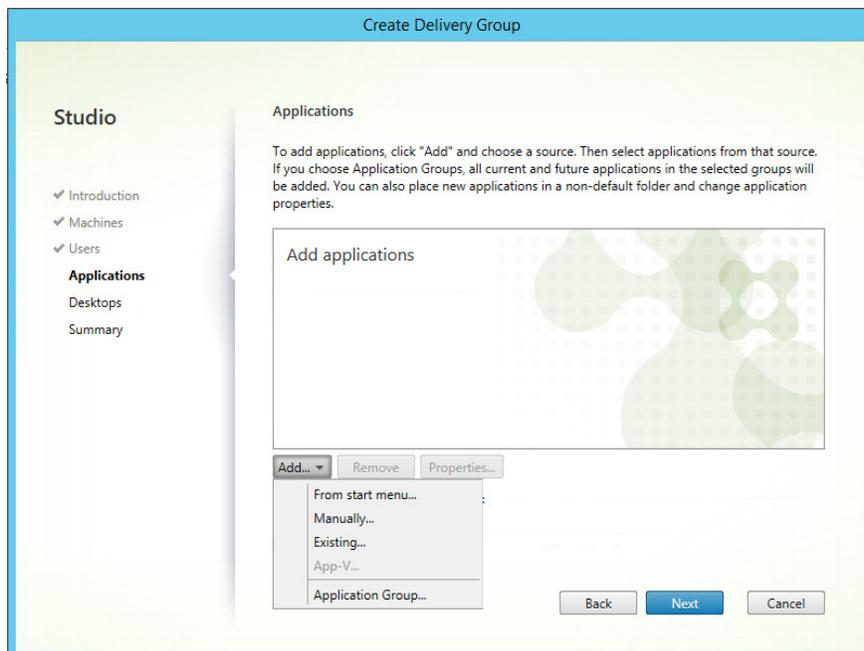
2.7.3 Accept the default of the current Machine Catalog and click Next



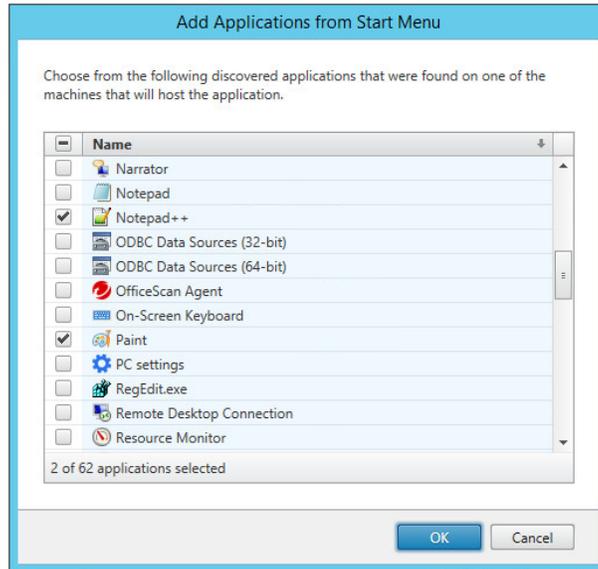
- 2.7.4 At the Users page, accept the default to Allow any authenticated (domain) users to use this Delivery Group. You can also limit the Delivery Group to specific users with the second option. Click Next.



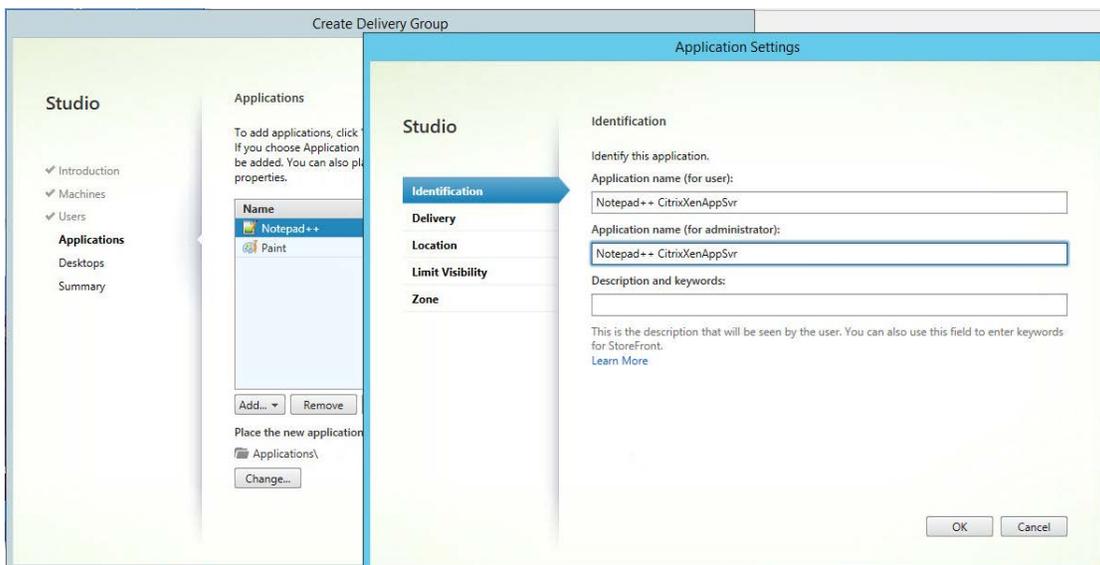
- 2.7.5 If your application is already installed, click Add > From Start Menu



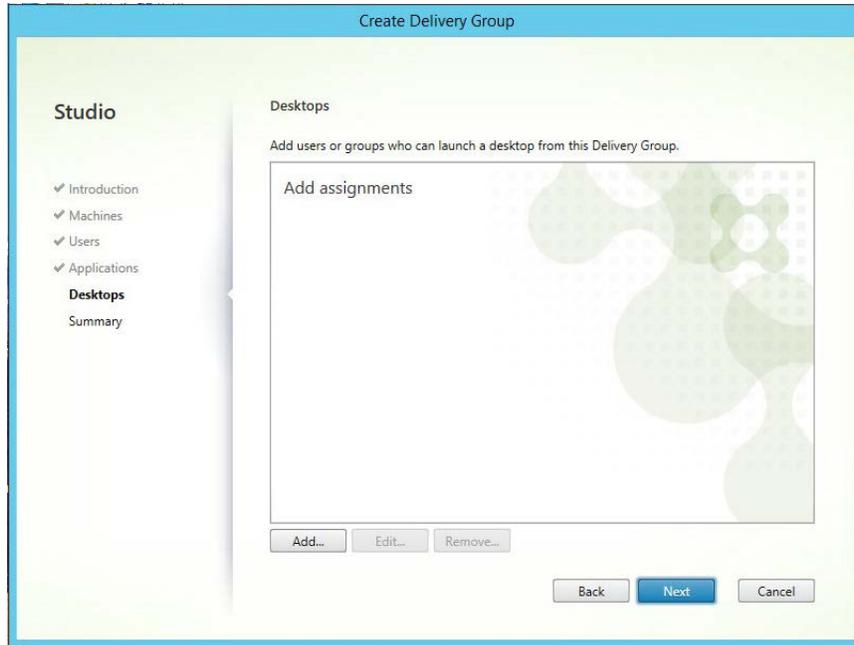
2.7.6 Select the application(s) you want to publish and click OK.



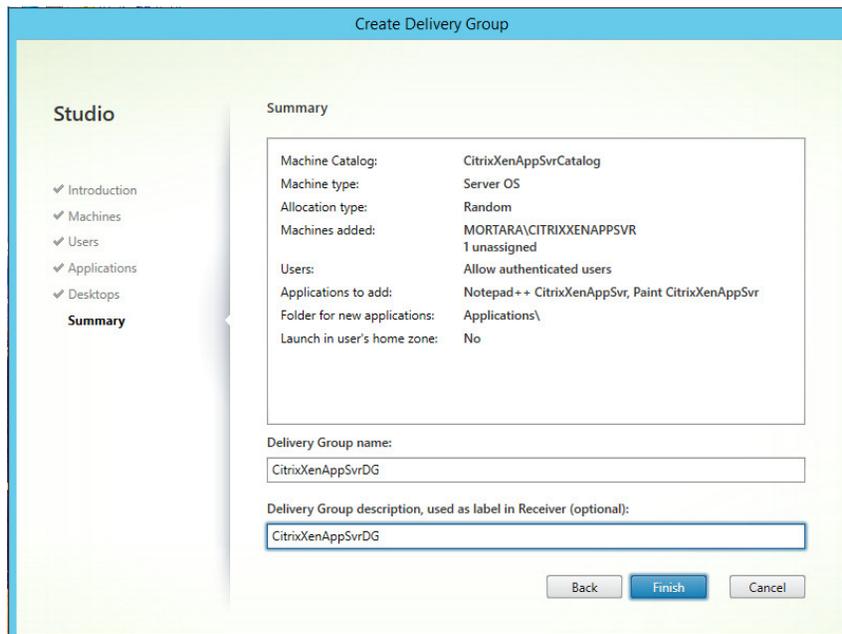
2.7.7 Optionally you can select each app in the list and click Properties to modify the name that will appear in the StoreFront web page. Click Next.



2.7.8 At the Desktops page, click Next



2.7.9 At the Summary page enter a name and description and click Finish.

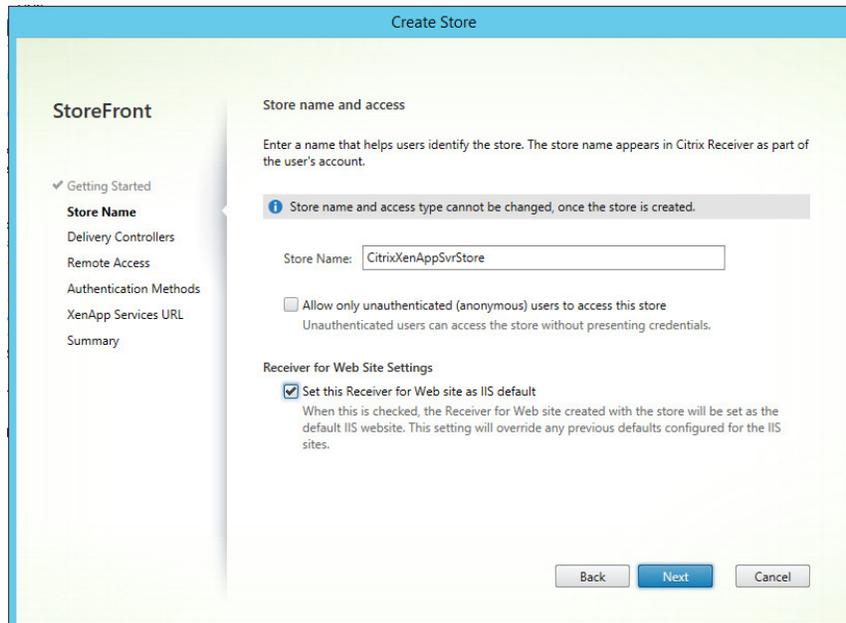


2.8 Create A StoreFront

2.8.1 Open Citrix Studio and select the Citrix StoreFront node. Click on Create a Store.



2.8.2 At Getting Started click Next. At Store Name, enter a name for the store. Optionally check the checkbox for Set this Receiver for Web site as IIS default. Click Next.



2.8.3 At the Delivery Controller page, click Add.

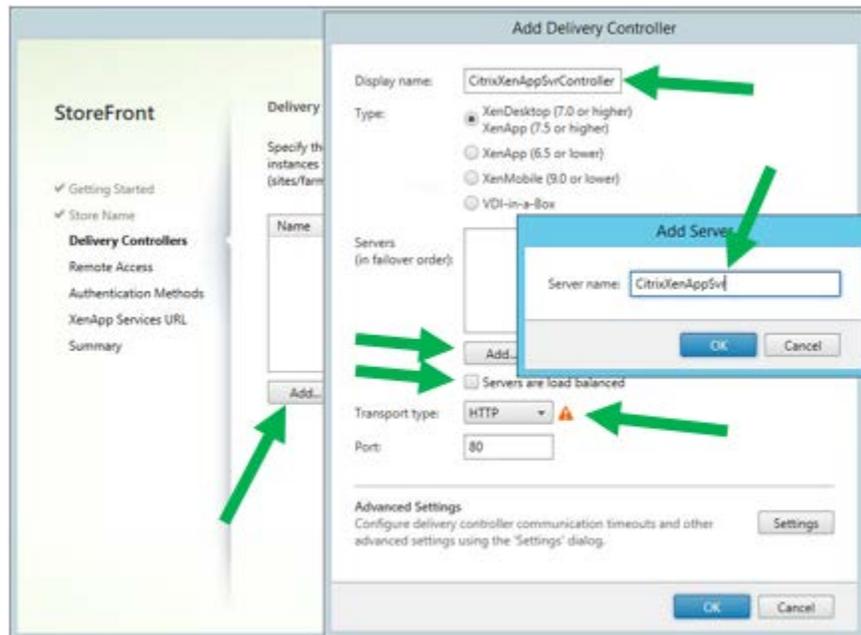
2.8.3.1 Enter a display name

2.8.3.2 UNCHECK Servers are load balanced

2.8.3.3 Set the Transport Type to HTTP for now (which is not the default). Until you install an SSL Certificate in IIS you must use HTTP.

2.8.3.4 Click on Add below the Servers list. Enter this server's name and click OK, and OK again.

2.8.3.5 Click Next.



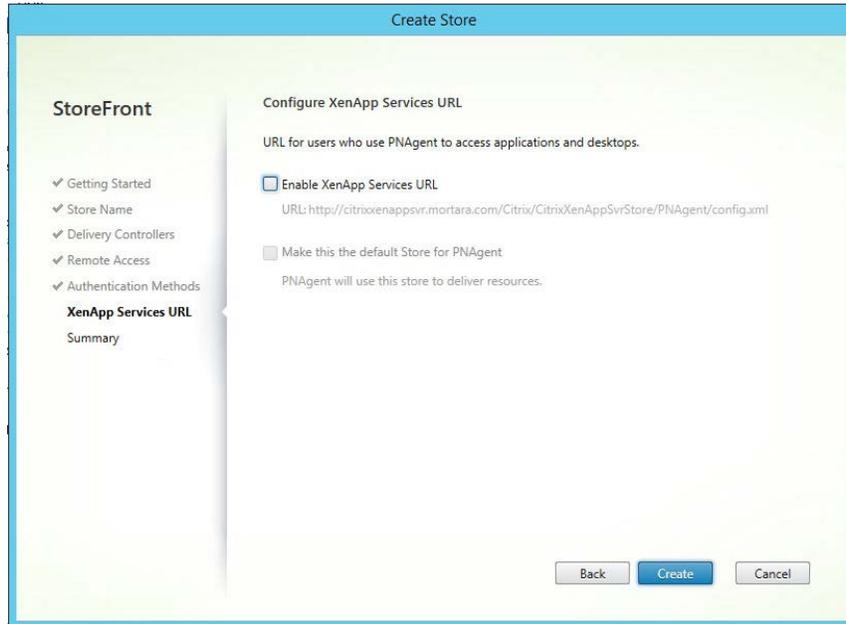
2.8.4 At the Remote Access page leave Remote Access disabled and click on Next.

The screenshot shows the 'Create Store' wizard at the 'Remote Access' step. On the left, a 'StoreFront' sidebar lists navigation options: Getting Started, Store Name, Delivery Controllers, Remote Access (highlighted), Authentication Methods, XenApp Services URL, and Summary. The main area is titled 'Remote Access' and contains the following text: 'Enabling remote access will allow users outside the firewall to access resources securely. You need to add a NetScaler Gateway once remote access is enabled.' Below this is a checkbox for 'Enable Remote Access' which is unchecked. A sub-section asks to 'Select the permitted level of access to internal resources' with two radio button options: 'Allow users to access only resources delivered through StoreFront (No VPN tunnel)' (selected) and 'Allow users to access all resources on the internal network (Full VPN tunnel)'. Below this is a text input field for 'NetScaler Gateway appliances' with an 'Add...' button and a 'Default appliance' dropdown menu. At the bottom are 'Back', 'Next', and 'Cancel' buttons.

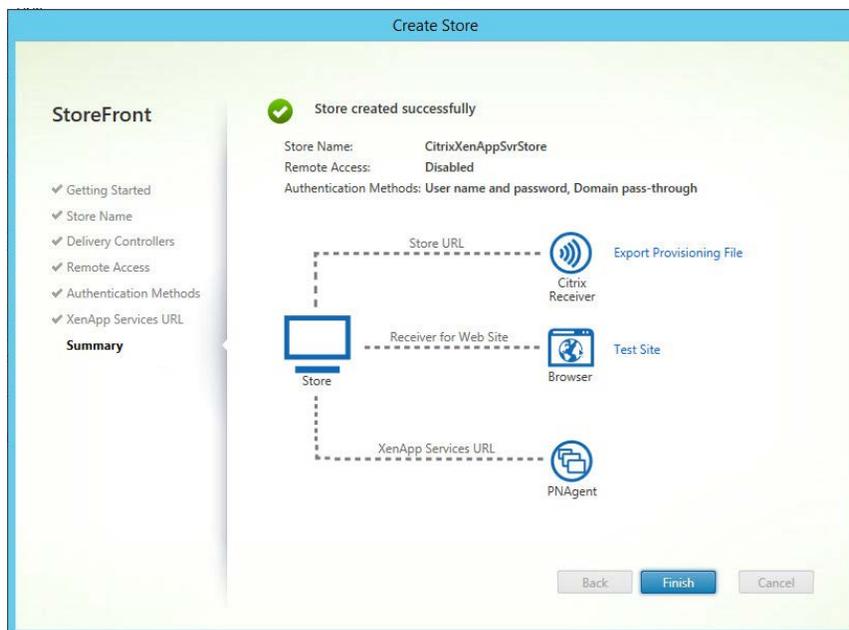
2.8.5 At the Authentication Methods page accept the default of User Name And Password (which will authenticate to the domain of this server). Optionally you can use Domain Pass Through so that the credentials of the currently logged on user on a domain-joined computer will automatically be used. Click Next.

The screenshot shows the 'Create Store' wizard at the 'Configure Authentication Methods' step. The 'StoreFront' sidebar is the same as in the previous screenshot, with 'Authentication Methods' highlighted. The main area is titled 'Configure Authentication Methods' and contains the text: 'Select the methods which users will use to authenticate and access resources.' Below this is a list of authentication methods with checkboxes: 'User name and password' (checked), 'SAML Authentication', 'Domain pass-through' (with a note: 'Can be enabled / disabled separately on Receiver for Web sites'), 'Smart card' (with a note: 'Can be enabled / disabled separately on Receiver for Web sites'), 'HTTP Basic', and 'Pass-through from NetScaler Gateway'. There is also an unchecked checkbox for 'Use a shared Authentication Service' with explanatory text: 'Using a shared authentication service for stores enables single sign on between them. Users do not have to logon when they are switching between stores. Select the store with which this store will share an authentication service. The dialog will be refreshed and the methods will be updated based on the selected store.' Below this is a 'Store name:' dropdown menu. At the bottom are 'Back', 'Next', and 'Cancel' buttons.

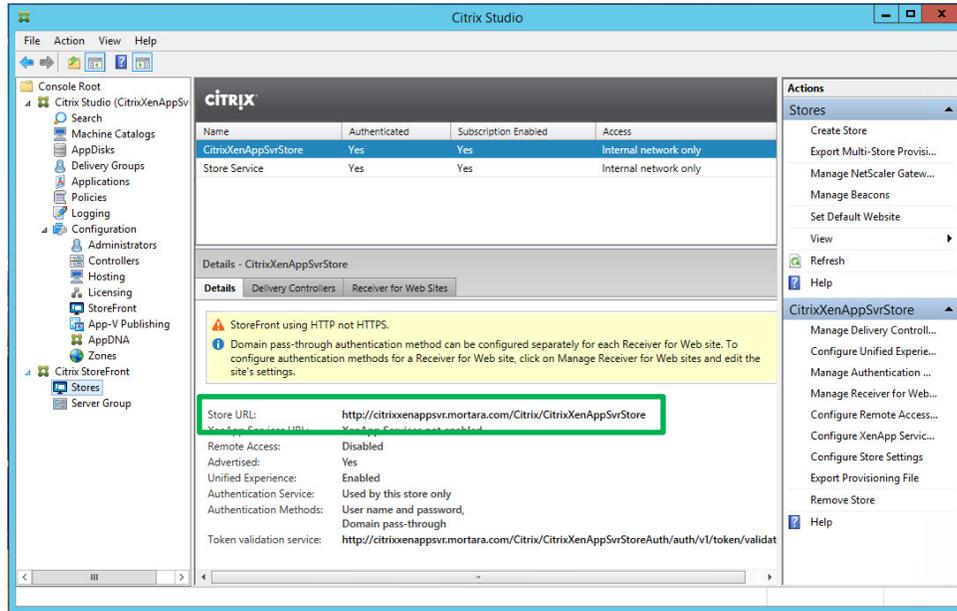
2.8.6 At the XenApp Services URL page, UNCHECK the Enable checkbox and click Create.



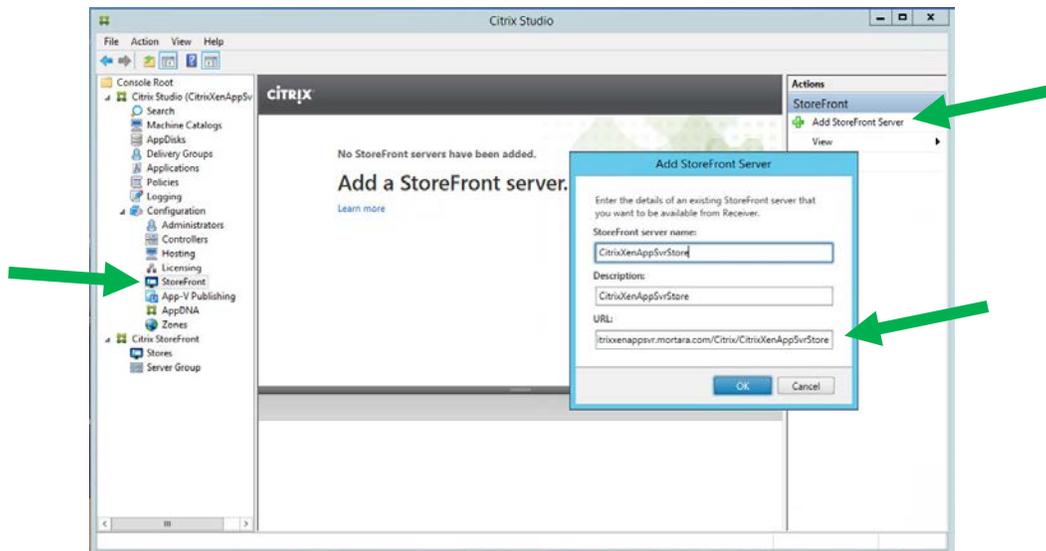
2.8.7 Click on Finish



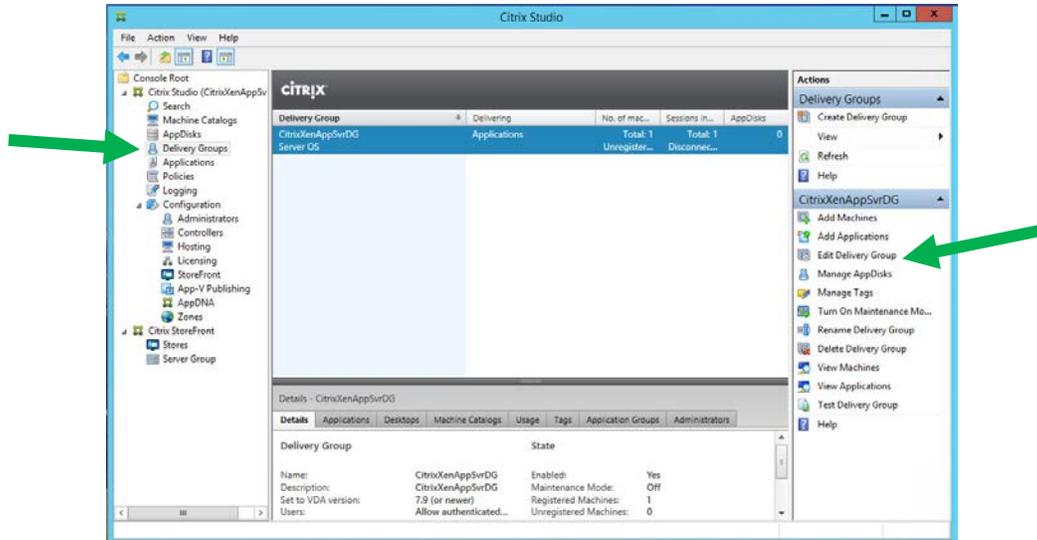
2.8.8 Select Citrix StoreFront > Stores in the left pane and make note of the Store URL.



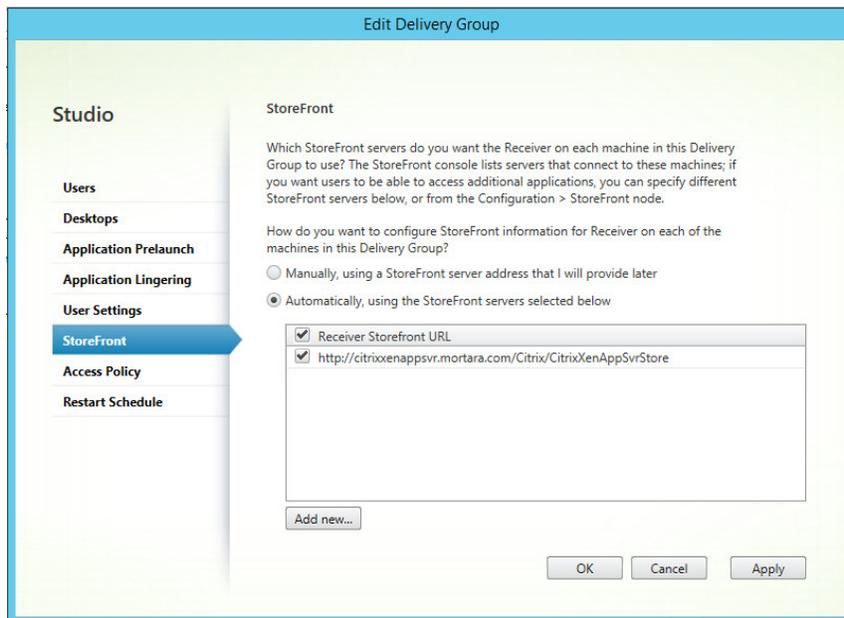
2.8.9 Select Citrix Studio > Configuration > StoreFront in the left pane and click on Add StoreFront Server. Enter a name and description and copy the URL from the previous step. Click on OK.



2.8.10 Select Citrix Studio > Delivery Groups. Select the Delivery Group you created previously and click on Edit Delivery Group.



2.8.11 Select the StoreFront tab at the left. Select Automatically, and check the checkbox for the StoreFront you just created. Click on OK.

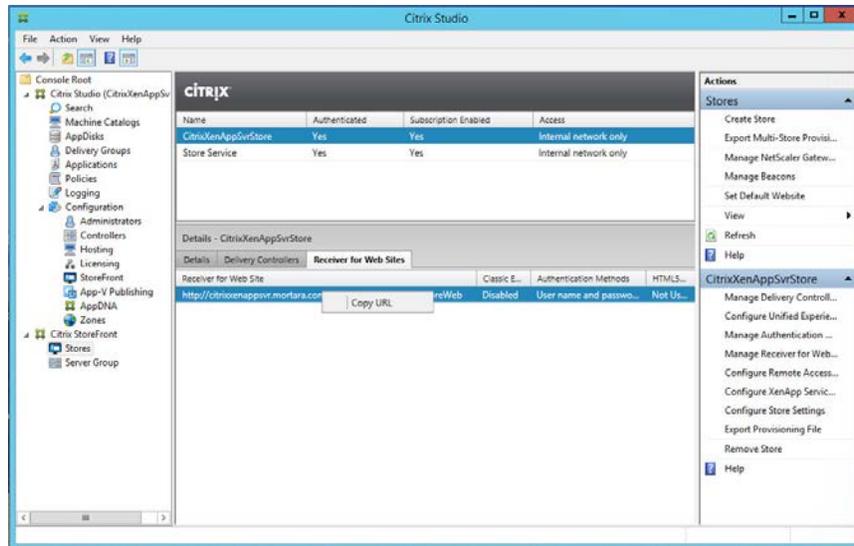


2.9 Configure Citrix Policies For Display

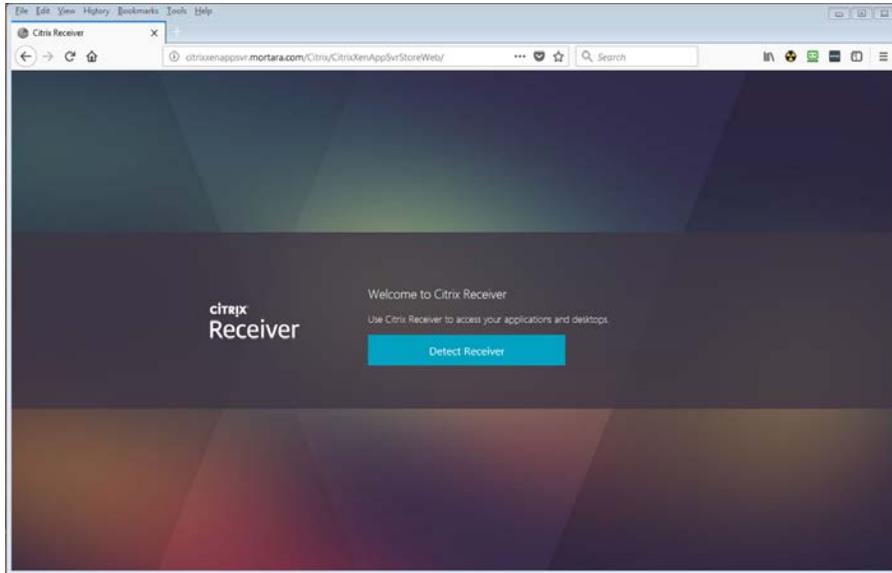
2.9.1

2.10 Test StoreFront

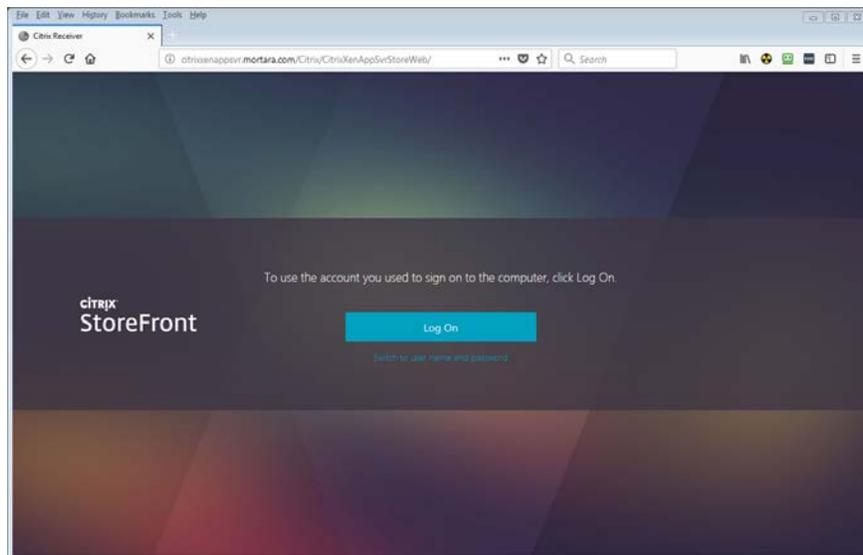
2.10.1 Open Citrix Studio and select Citrix StoreFront > Stores in the left pane. Click on the Receiver For Web Sites tab. Right-click on the URL and select Copy URL. Note do NOT use the Store URL for this test – it will get Access Denied.



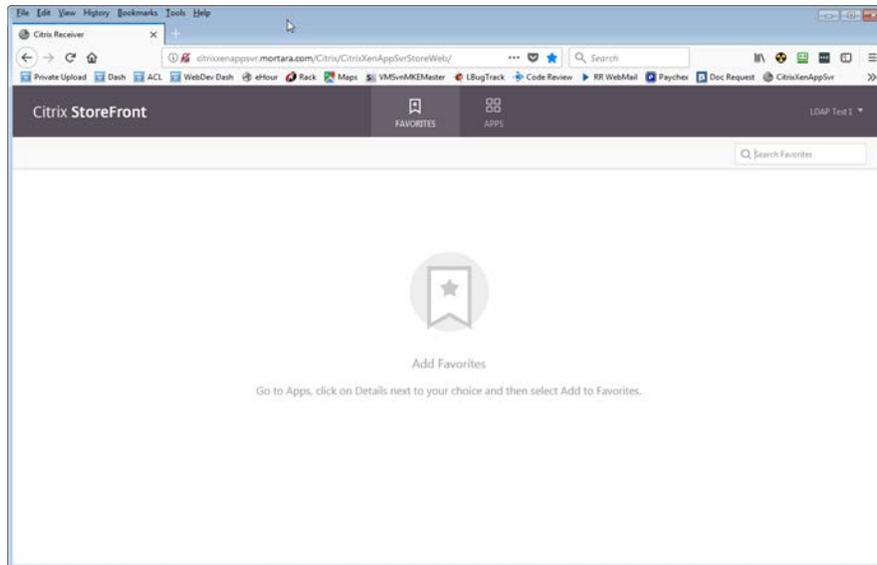
2.10.2 Paste the URL into a browser on a client machine. Click on Detect Receiver.



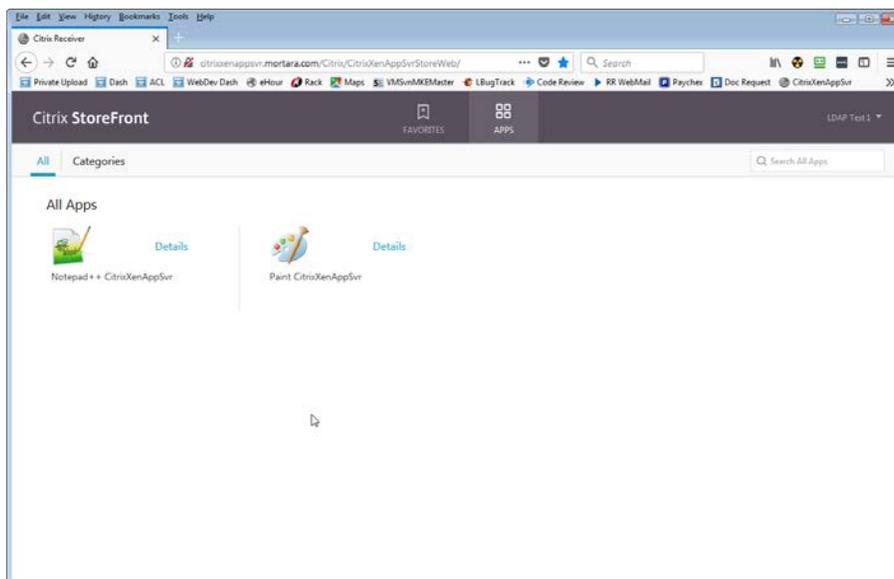
2.10.3 If you enabled both Username And Password and Domain Pass Through authentication methods and you are logged into a domain-joined machine, you will have a choice of logon methods. Click Log On to use your existing domain credentials, or click Switch To User Name And Password to enter them manually.



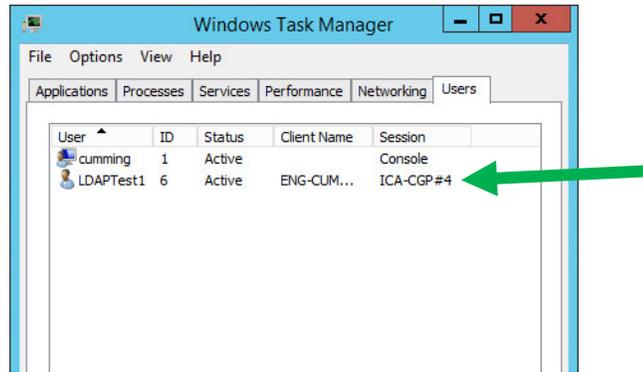
2.10.4 Click on Apps in the toolbar



2.10.5 Select an app and verify that it starts and displays correctly. Leave the app running for the next step.

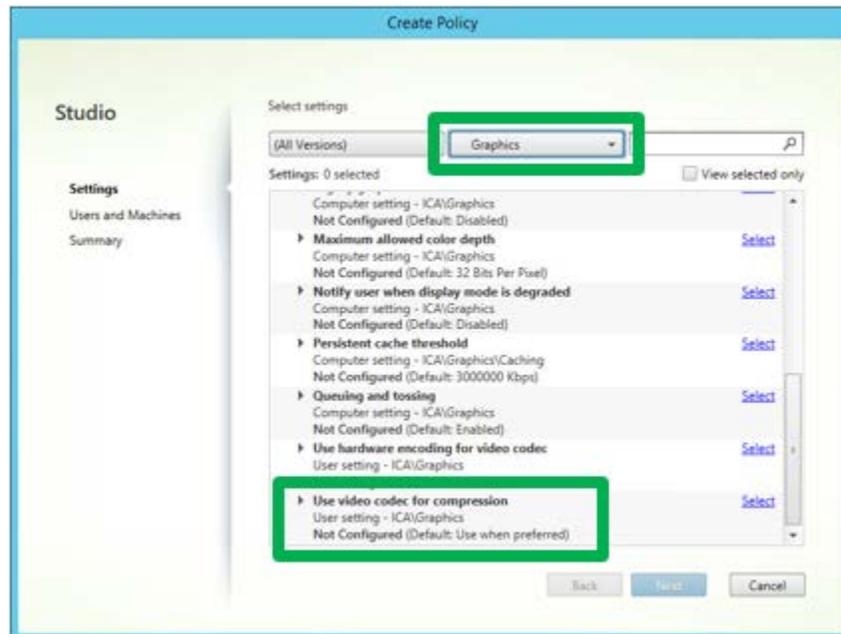


- 2.10.6 Back on the server, open Task Manager and select the Users tab. You should be able to see the user session that has logged in via StoreFront with a Session name similar to ICA-CGP #x. Close the application you just started.

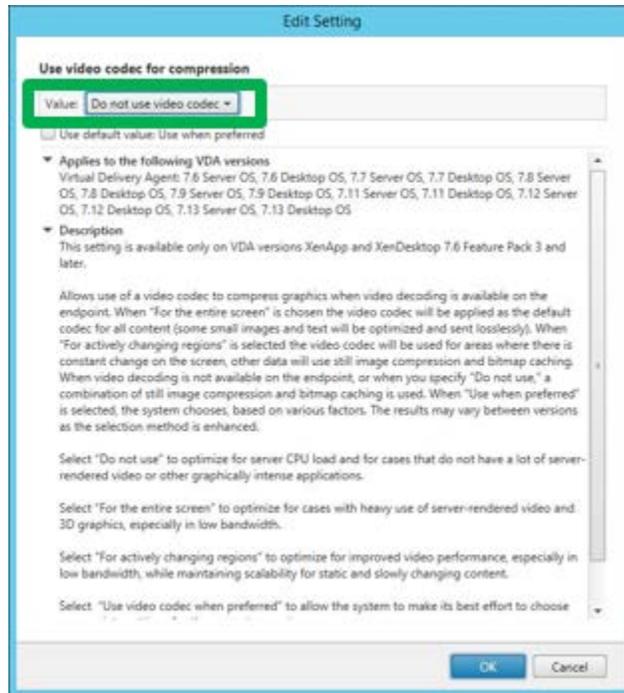


2.11 Create Policy For ConnexCardio

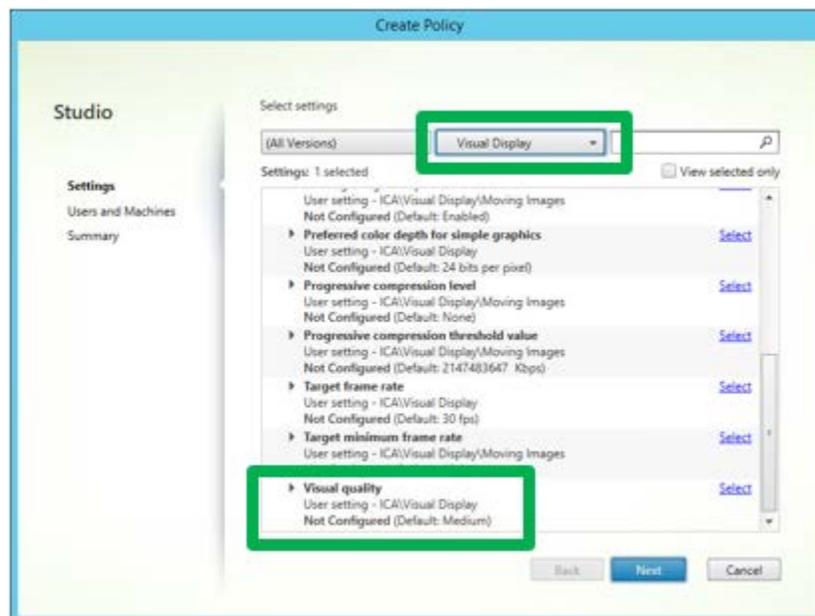
- 2.11.1 Open Citrix Studio and select Citrix Studio > Policies in the left pane. Click on Create Policy in the Actions pane.
- 2.11.2 In the All Settings listbox select the Graphics filter. Scroll to the bottom of the settings list below it and click on Select next to the Use Video Codec For Compression setting.



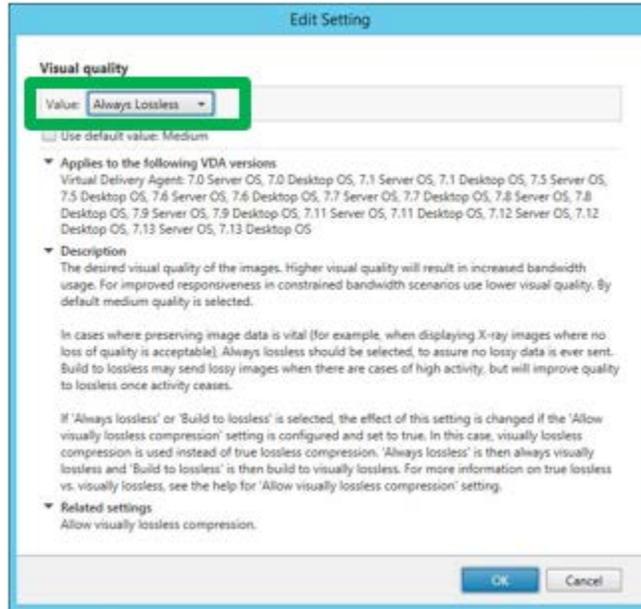
2.11.3 Select Do Not Use Video Codec from the listbox at the top and click OK



2.11.4 Back in the Create Policy dialog, scroll down in the All Settings listbox and select Visual Display. Scroll to the bottom of the settings list below it and click on Select next to the Visual Quality setting.

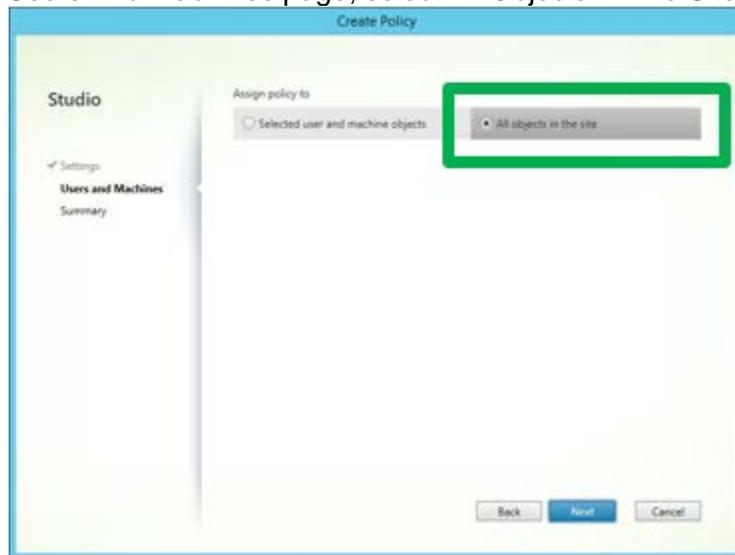


2.11.5 Select Always Lossless from the listbox at the top and click on OK.



2.11.6 Back in the Create Policy dialog, click on Next

2.11.7 At the Users And Machines page, select All Objects In The Site and click on Next.



2.11.8 Give the policy a reasonable name and then click on Finish.

Create Policy

Studio

- Settings
- Users and Machines
- Summary**

Summary
View a summary of the settings you configured and provide a name for your new policy.

Policy name: Enable policy

Description:

Settings configured: 2

- Use video codec for compression**
User setting - ICA/Graphics
Do not use video codec (Default: Use when preferred)
- Visual quality**
User setting - ICA/Visual Display
Always Lossless (Default: Medium)

Assigned to: user and machine objects
The settings are applied to all objects in the site.

Back Finish Cancel